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HARMAN/BECKER
AUTOMOTIVE SYSTEMS

Service Manual

Version 1.0 - deutsch

Audio 10 ECE Typ 4410

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- *Bestückungsplan*
- *Testprogramm*
- *Diebstahlsicherung*
- *Technische Daten*
- *Ersatzteile*

BECKER GMBH
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Telefon +49(0) 7248 710

Technische Änderungen vorbehalten
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Bestell-Nr. 1385.380

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Konnektor-Interface (Board 4010-19LL) 4

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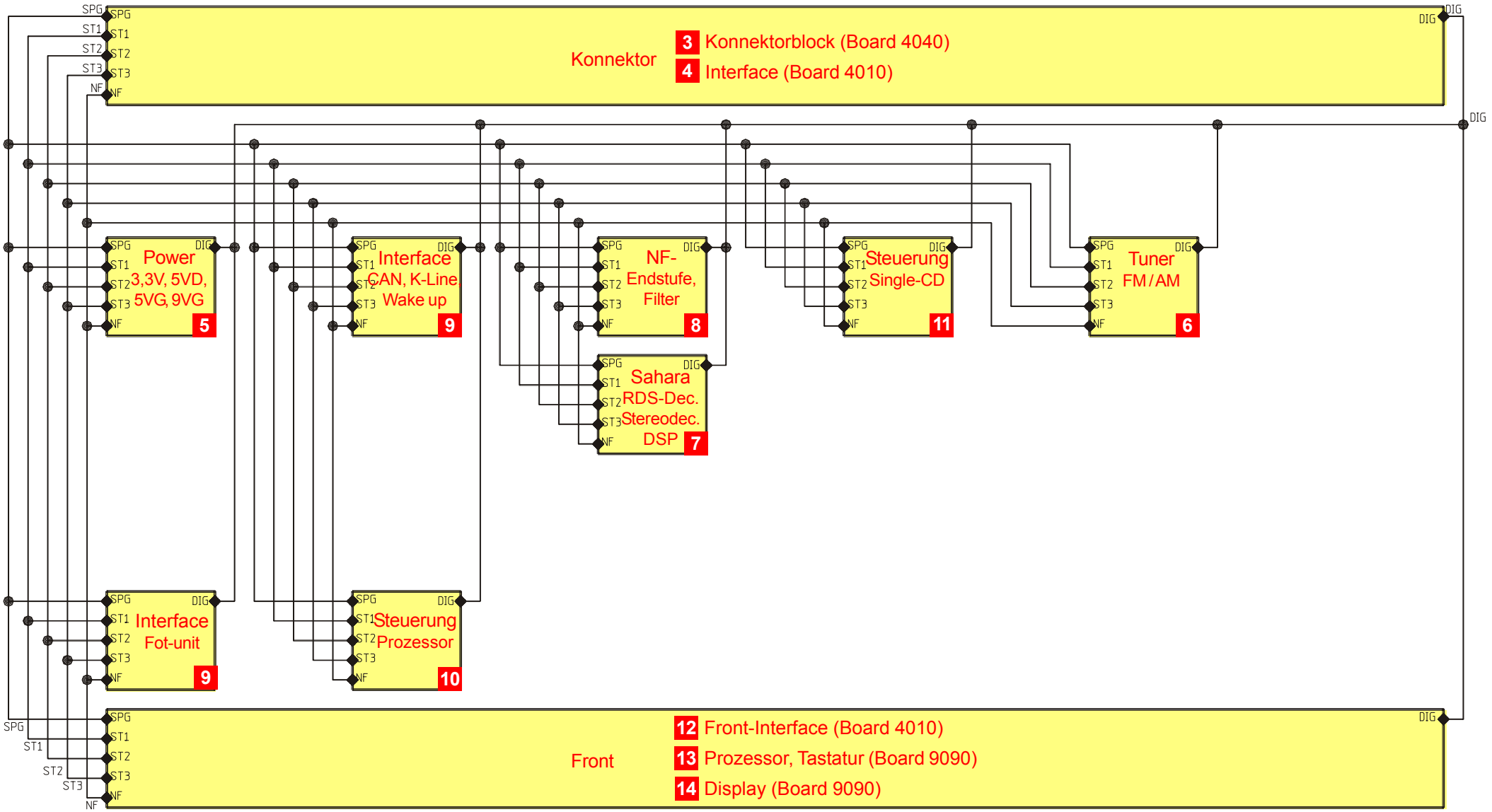
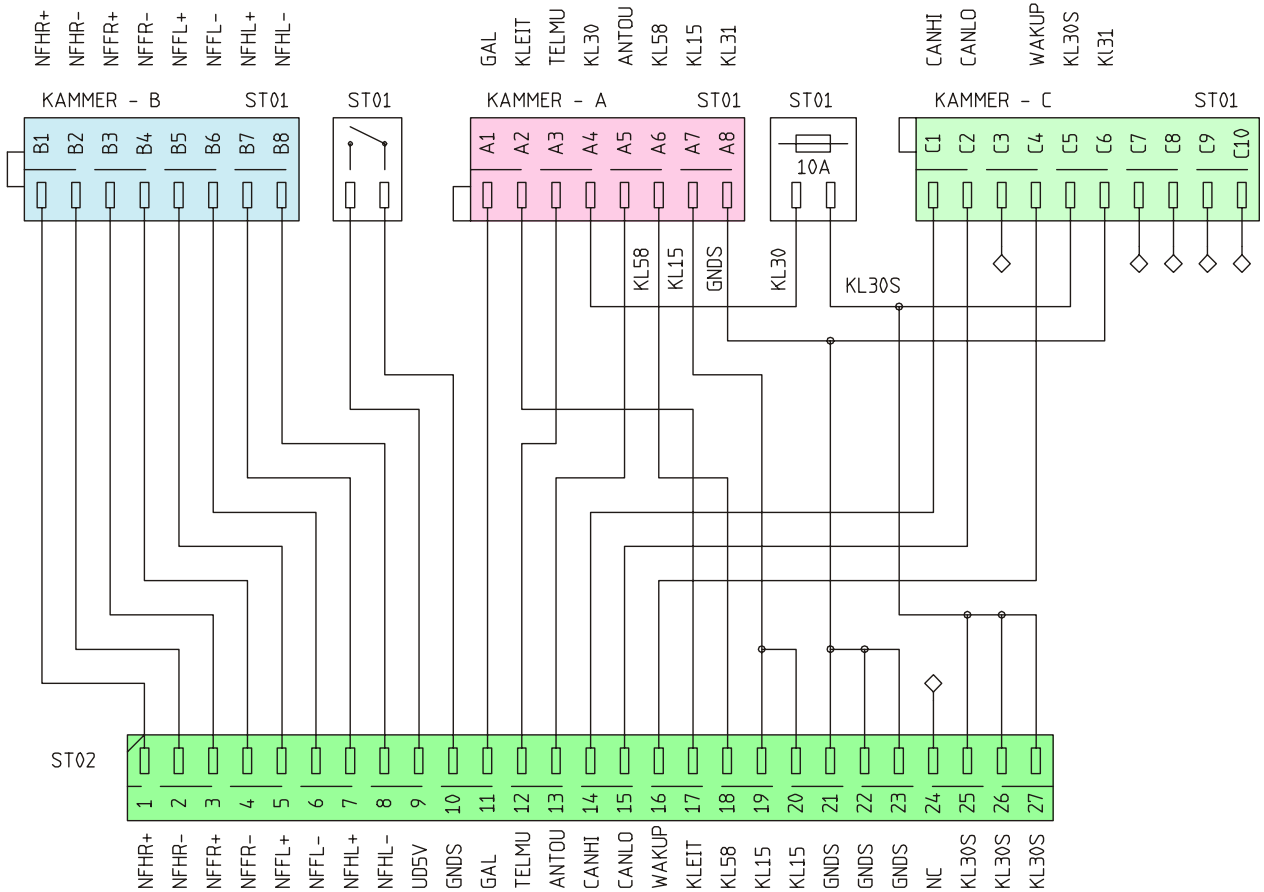
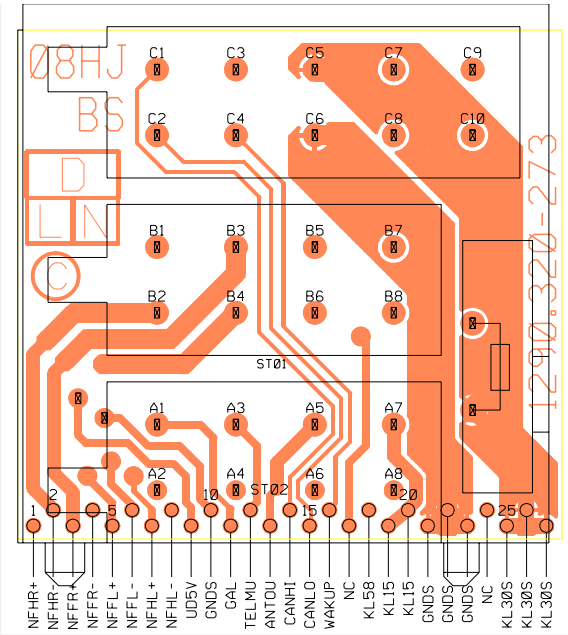
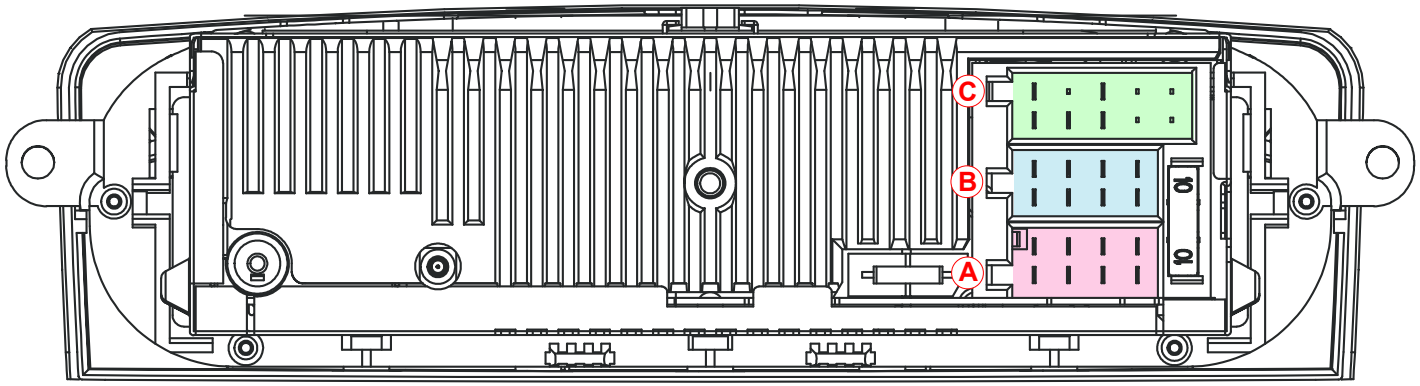
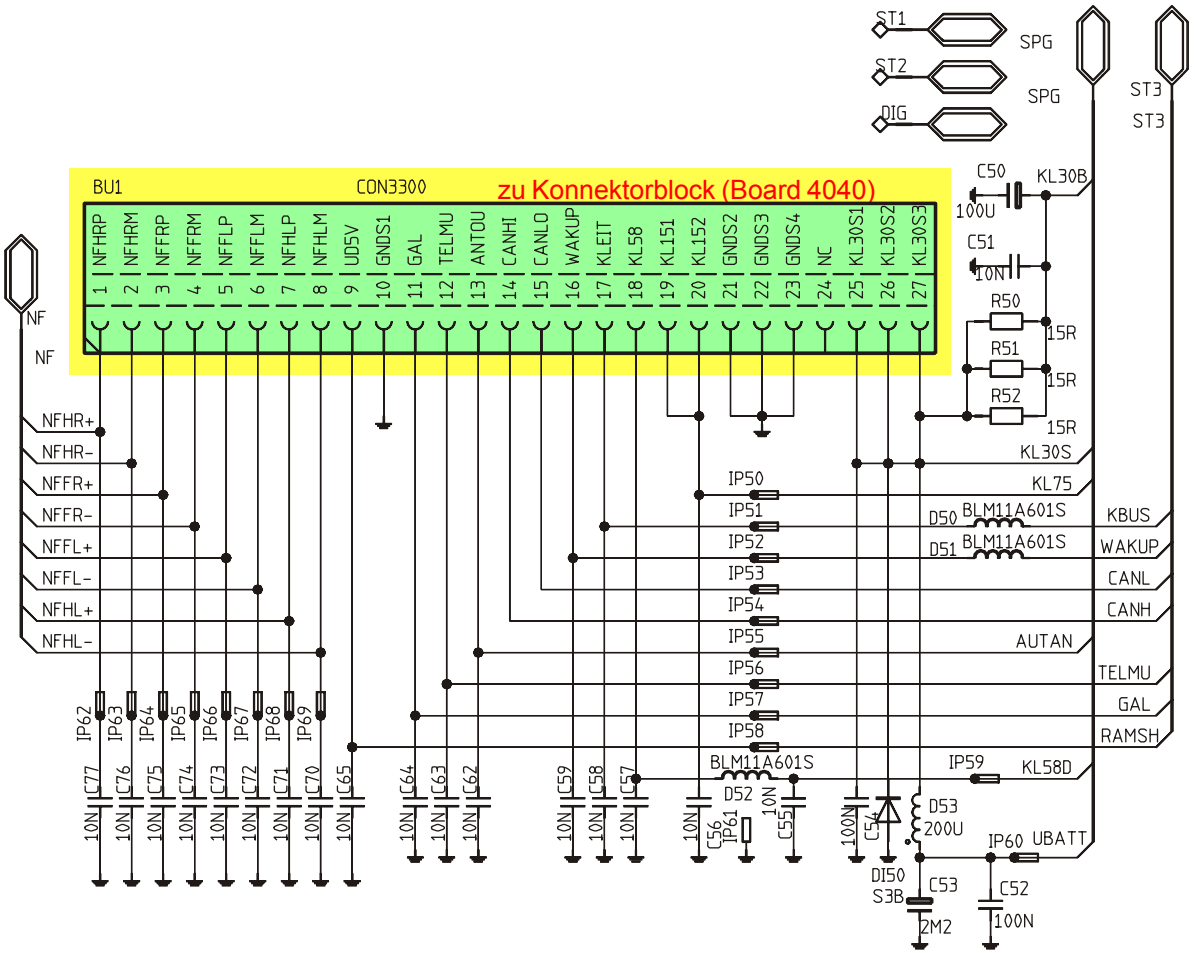

SPG
ST1
ST2
ST3
NF
DIG
Konnektor
3 Konnektorblock (Board 4040)
4 Interface (Board 4010)
Power
3,3V, 5VD,
5VG, 9VG
5
Interface
CAN, K-Line,
Wake up
9
NF-
Endstufe,
Filter
8
Steuerung
Single-CD
11
Tuner
FM / AM
6
Sahara
RDS-Dec.
Stereodec.
DSP
7
Interface
Fot-unit
9
Steuerung
Prozessor
10
Front
12 Front-Interface (Board 4010)
13 Prozessor, Tastatur (Board 9090)
14 Display (Board 9090)

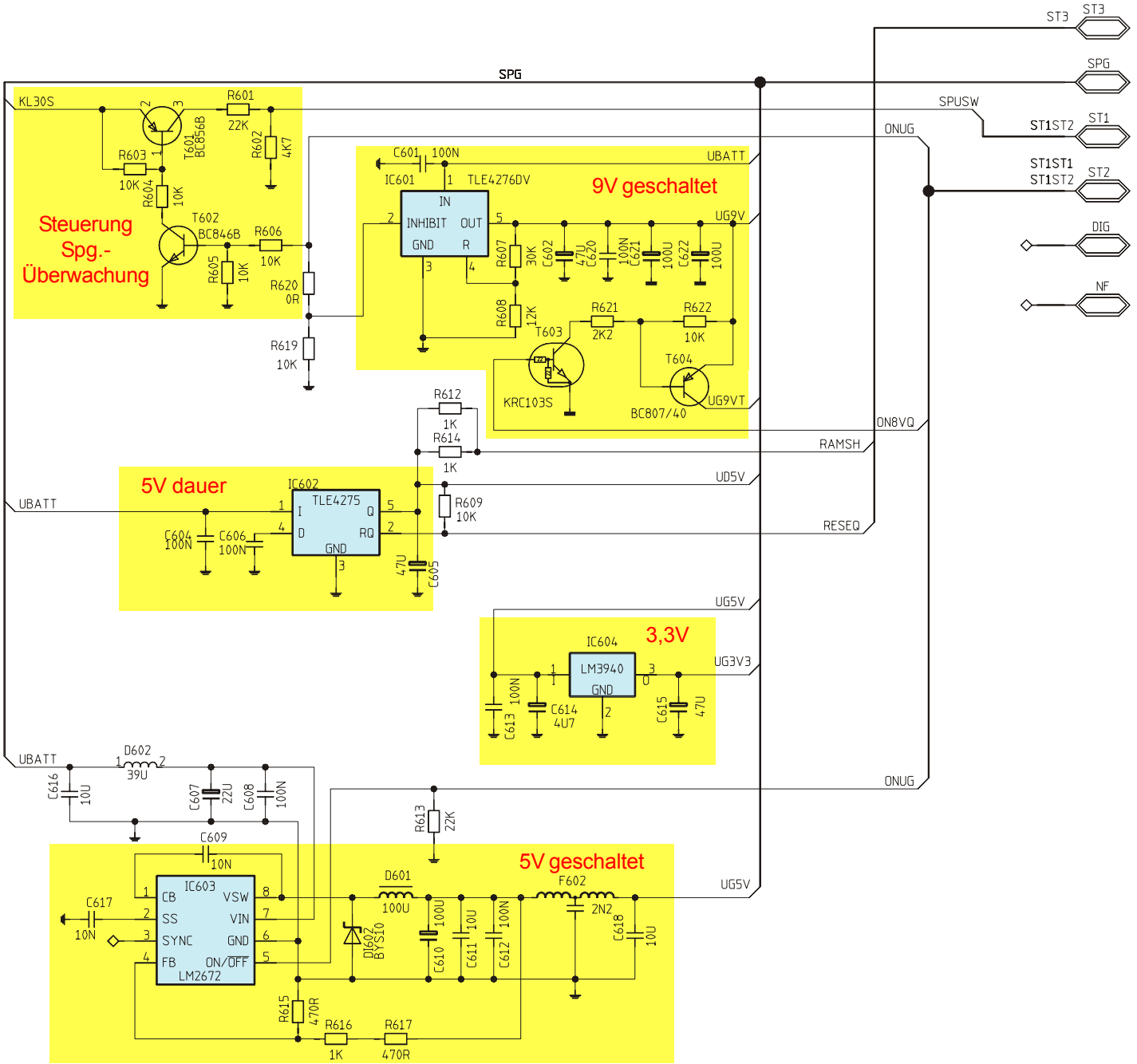

NFHR+ NFHR- NFFR+ NFFR- NFFL+ NFFL- NFHL+ NFHL-
KAMMER - B
ST01
B1 B2 B3 B4 B5 B6 B7 B8
ST01
GAL KLEIT TELMU KL30 ANTOU KL58 KL15 KL31
KAMMER - A
ST01
A1 A2 A3 A4 A5 A6 A7 A8
ST01
10A
CANHI CANLO WAKUP KL30S KL31
KAMMER - C
ST01
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10
KL58 KL15 GNDS KL30 KL30S
ST02
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
NFHR+ NFHR- NFFR+ NFFR- NFFL+ NFFL- NFHL+ NFHL- UD5V GNDS GAL TELMU ANTOU CANHI CANLO WAKUP KLEIT KL58 KL15 KL15 GNDS GNDS GNDS NC KL30S KL30S KL30S

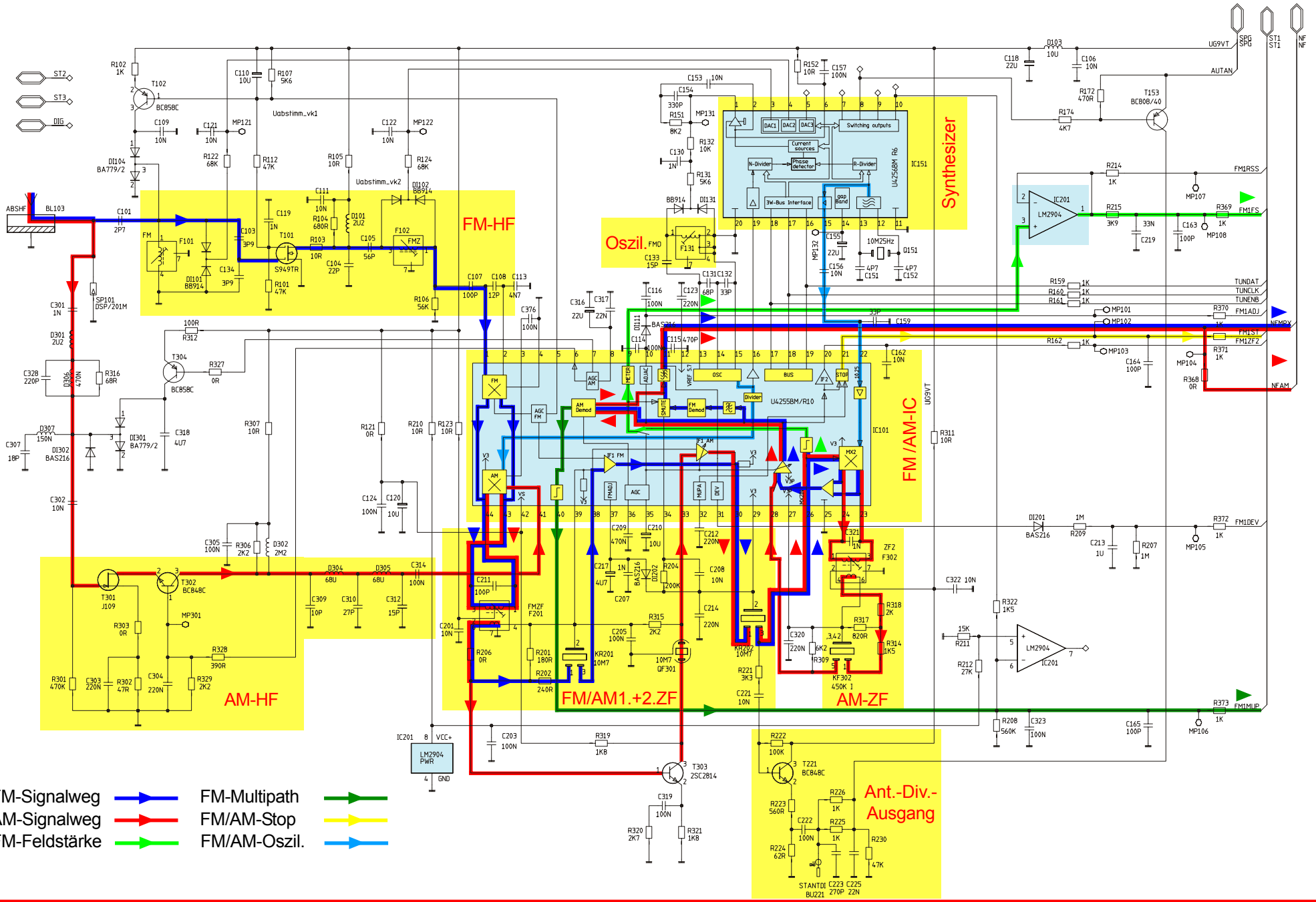


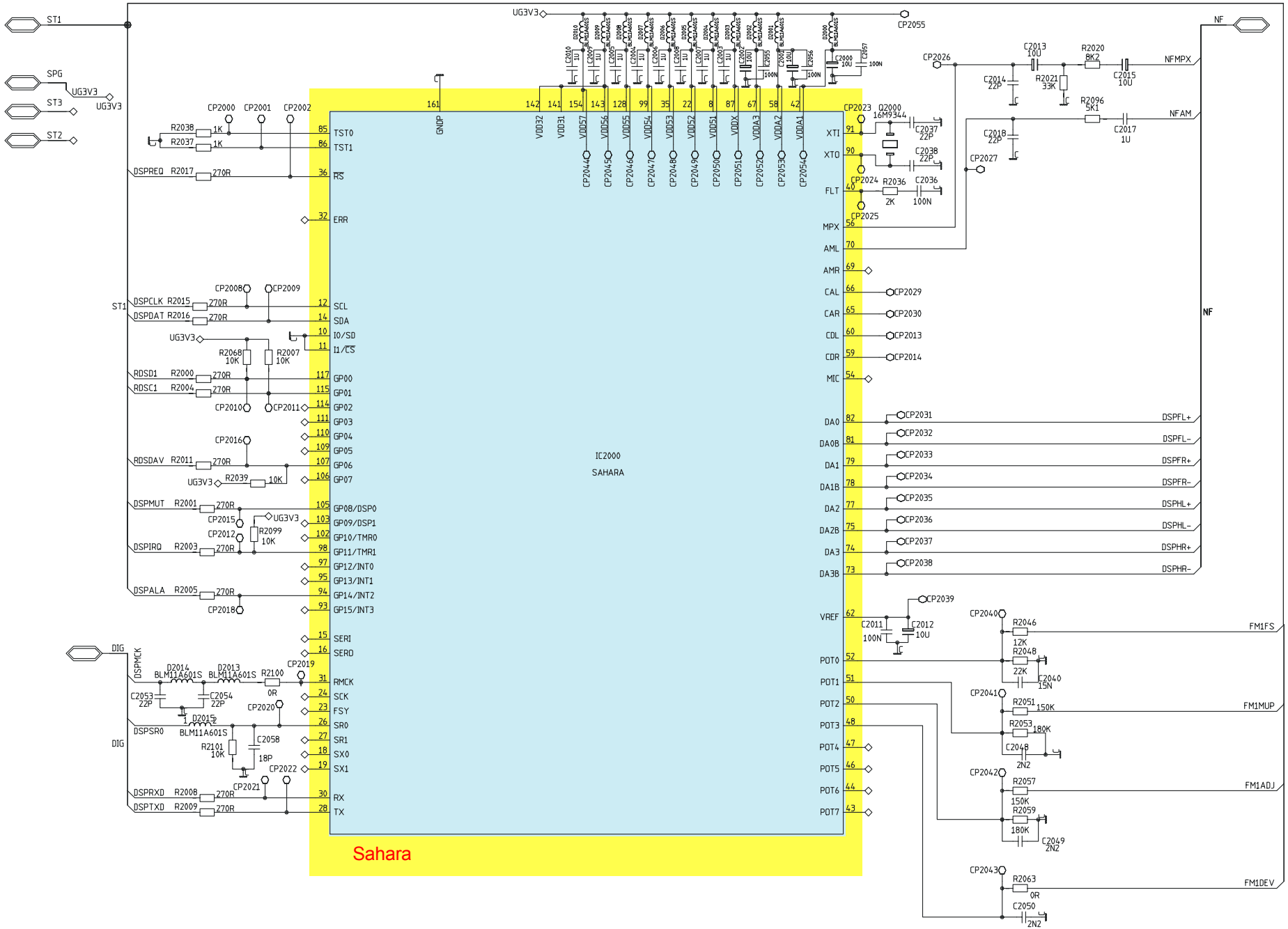


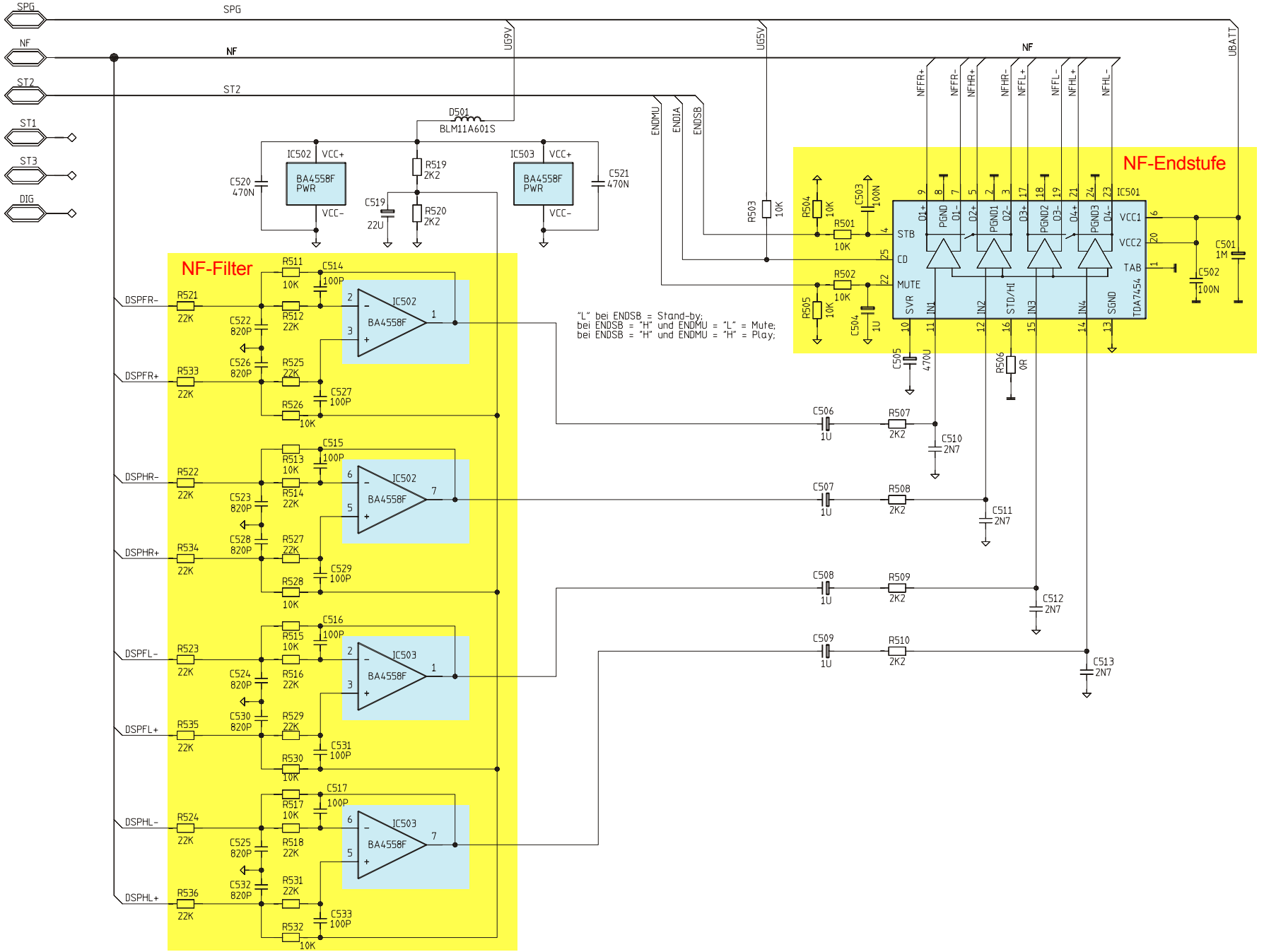
PIN	Kammer (A)	Kammer (B)	Kammer (C)
1		Lautsprecher Heck rechts+	CAN-High
2	K-Leitung	Lautsprecher Heck rechts -	CAN-Low
3	Telefon-Mute	Lautsprecher Front rechts+	
4	KL30 Batterie	Lautsprecher Front rechts -	Wake up-Leitung
5	Steuer-ausgang12V	Lautsprecher Front links+	Ubatt. (KL30) nach Sicherung
6		Lautsprecher Front links -	KL31 Masse
7		Lautsprecher Heck links+	
8	KL31 Masse	Lautsprecher Heck links -	

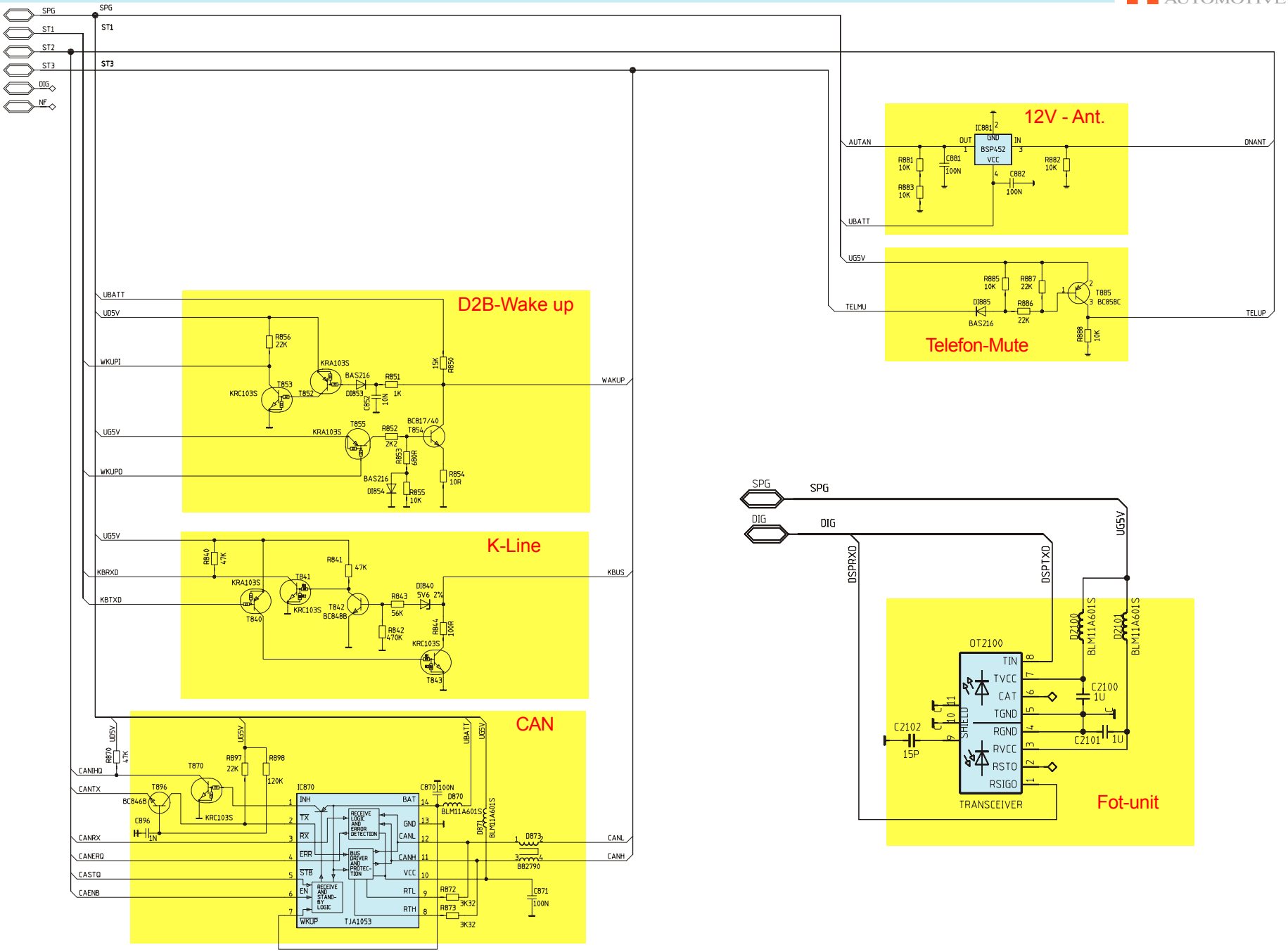

BU1
CON3300
zu Konnektorblock (Board 4040)
NFHRP
NFHRM
NFFRP
NFFRM
NFFLP
NFFLM
NFHLP
NFHLM
UDSV
GNDS1
GAL
TELMU
ANTOU
CANHI
CANLO
WAKUP
KLEIT
KL58
KL151
KL152
GNDS2
GNDS3
GNDS4
NC
KL30S1
KL30S2
KL30S3
NF
NF
ST1
ST2
DIG
SPG
SPG
ST3
ST3
C50
100U
KL30B
C51
10N
R50
R51
R52
15R
15R
15R
KL30S
KL75
KBUS
WAKUP
CANL
CANH
AUTAN
TELMU
GAL
RAMSH
KL58D
UBATT
NFHR+
NFHR-
NFFR+
NFFR-
NFFL+
NFFL-
NFHL+
NFHL-
IP50
IP51
IP52
IP53
IP54
IP55
IP56
IP57
IP58
IP59
IP60
IP61
D50
BLM11A601S
D51
BLM11A601S
BLM11A601S
D52
D53
200U
DI50
S3B
C53
2M2
C52
100N
C54
100N
C55
10N
C56
10N
IP62
IP63
IP64
IP65
IP66
IP67
IP68
IP69
C77
C76
C75
C74
C73
C72
C71
C70
C65
C64
C63
C62
C59
C58
C57
10N

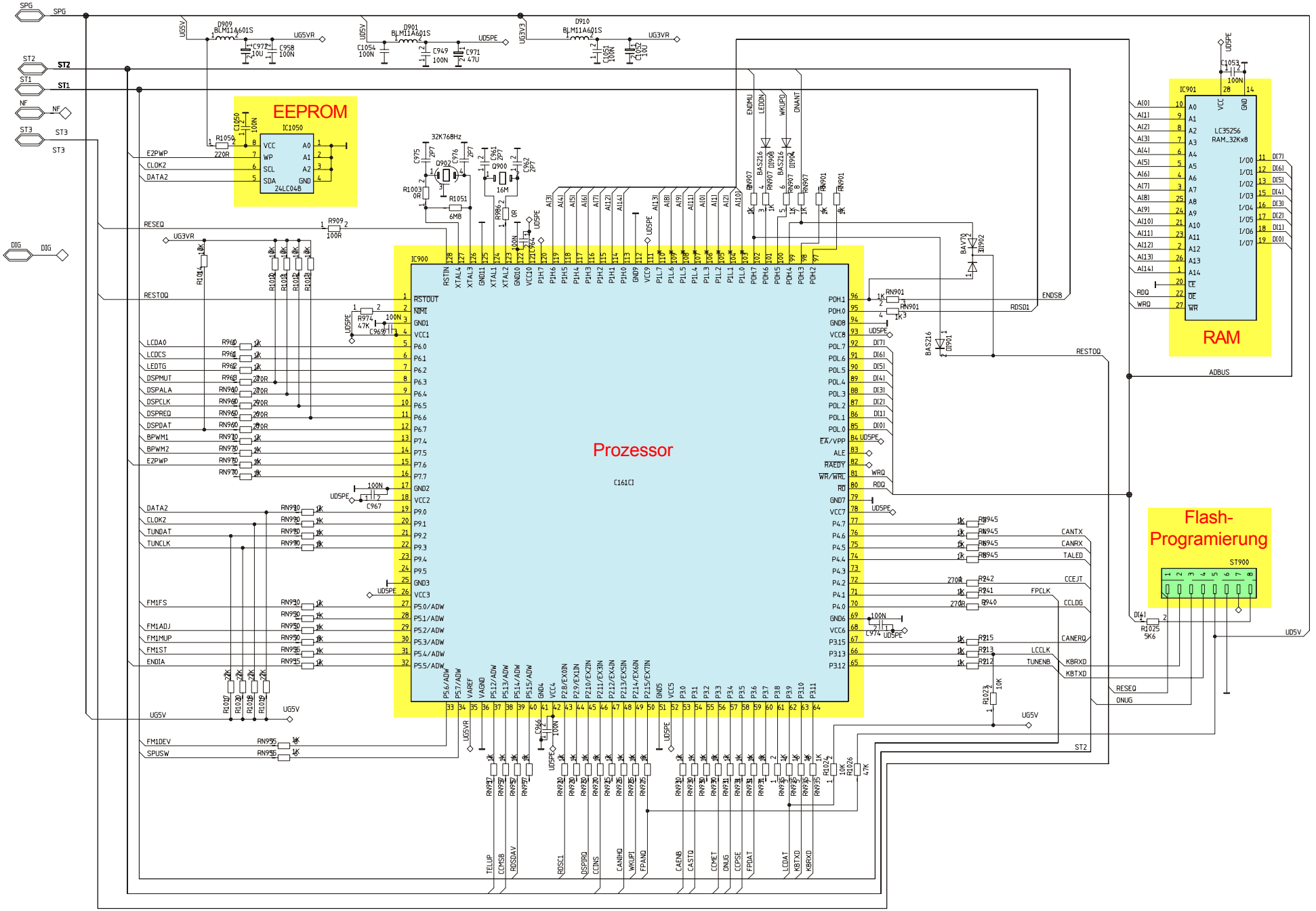

ST3
SPG
SPUSW
ST1ST2
ST1
ST1ST1
ST1ST2
ST2
DIG
NF
ONUG
ON8VQ
RAMSH
UD5V
RESEQ
UG5V
UG3V3
UBATT
KL30S
Steuerung Spg.- Überwachung
T601 BC856B
T602 BC846B
R601 22K
R602 4K7
R603 10K
R604 10K
R605 10K
R606 10K
R619 10K
R620 0R
9V geschaltet
IC601 TLE4276DV
IN
INHIBIT
OUT
GND
R
C601 100N
R607 30K
R608 12K
C602 47U
C620 100N
C621 100U
C622 100U
R621 2K2
R622 10K
T603 KRC103S
T604 BC807/40
UG9V
UG9VT
5V dauer
IC602 TLE4275
I
Q
D
RQ
GND
C604 100N
C606 100N
C605 47U
R609 10K
R612 1K
R614 1K
3,3V
IC604 LM3940
GND
C613 100N
C614 4U7
C615 47U
D602 39U
C616 10U
C607 22U
C608 100N
C609 10N
R613 22K
5V geschaltet
IC603 LM2672
CB
SS
SYNC
FB
VSW
VIN
GND
ON/OFF
C617 10N
D601 100U
D602 BYS10
C610 100U
C611 10U
C612 100N
F602 2N2
C618 10U
R615 470R
R616 1K
R617 470R

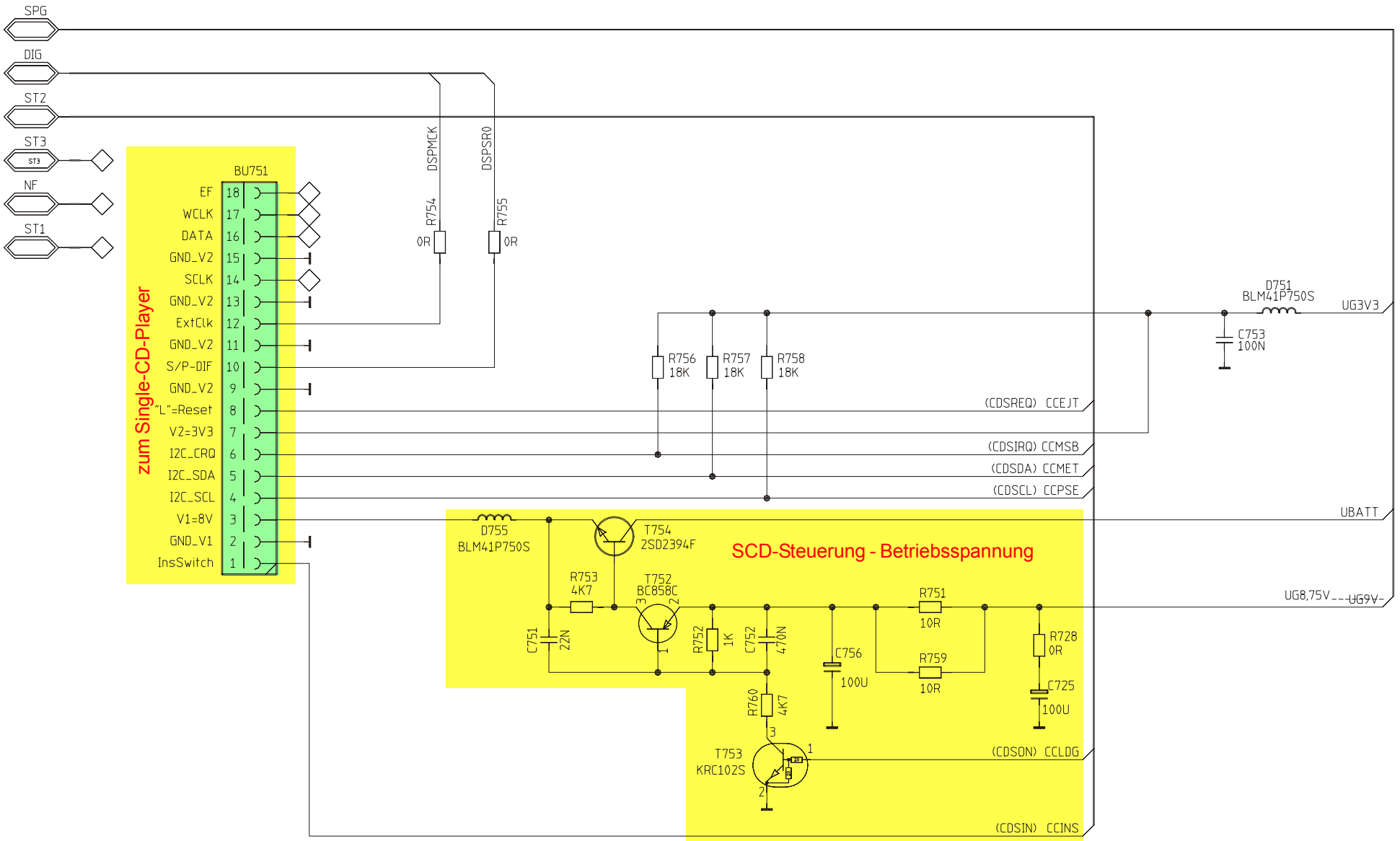

FM-HF
Oszil.
Synthesizer
FM/AM-IC
AM-HF
FM/AM1.+2.ZF
AM-ZF
Ant.-Div.-Ausgang
FM-Signalweg
AM-Signalweg
FM-Feldstärke
FM-Multipath
FM/AM-Stop
FM/AM-Oszil.

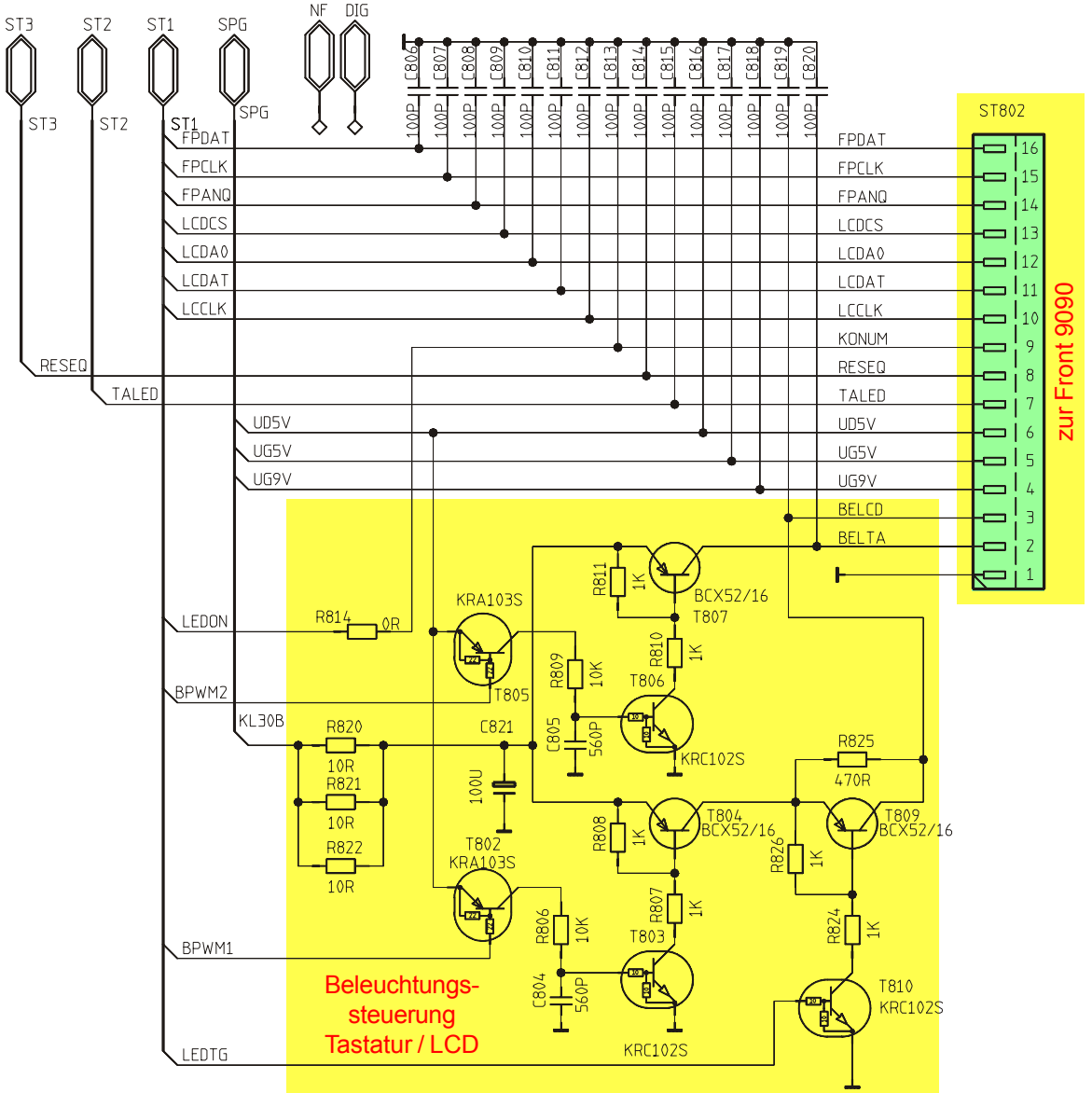

IC2000
SAHARA
Sahara
ST1
SPG
ST3
ST2
UG3V3
DIG
NF
NFMPX
NFAM
FM1FS
FM1MUP
FM1ADJ
FM1DEV
DSPFL+
DSPFL-
DSPFR+
DSPFR-
DSPHL+
DSPHL-
DSPHR+
DSPHR-
DSPREQ
DSPCLK
DSPDAT
RDSD1
RDSC1
RDSDAV
DSPMUT
DSPIRQ
DSPALA
DSPMCK
DSPSRO
DSPRXD
DSPTXD
TST0
TST1
RS
ERR
SCL
SDA
IO/SD
I1/CS
GP00
GP01
GP02
GP03
GP04
GP05
GP06
GP07
GP08/DSP0
GP09/DSP1
GP10/TMR0
GP11/TMR1
GP12/INT0
GP13/INT1
GP14/INT2
GP15/INT3
SERI
SERO
RMCK
SCK
FSY
SR0
SR1
SX0
SX1
RX
TX
GNDP
VDD32
VDD31
VDD57
VDD56
VDD55
VDD54
VDD53
VDD52
VDD51
VDDX
VDDA3
VDDA2
VDDA1
XTI
XTO
FLT
MPX
AML
AMR
CAL
CAR
CDL
CDR
MIC
DA0
DA0B
DA1
DA1B
DA2
DA2B
DA3
DA3B
VREF
POT0
POT1
POT2
POT3
POT4
POT5
POT6
POT7
Q2000
16M9344

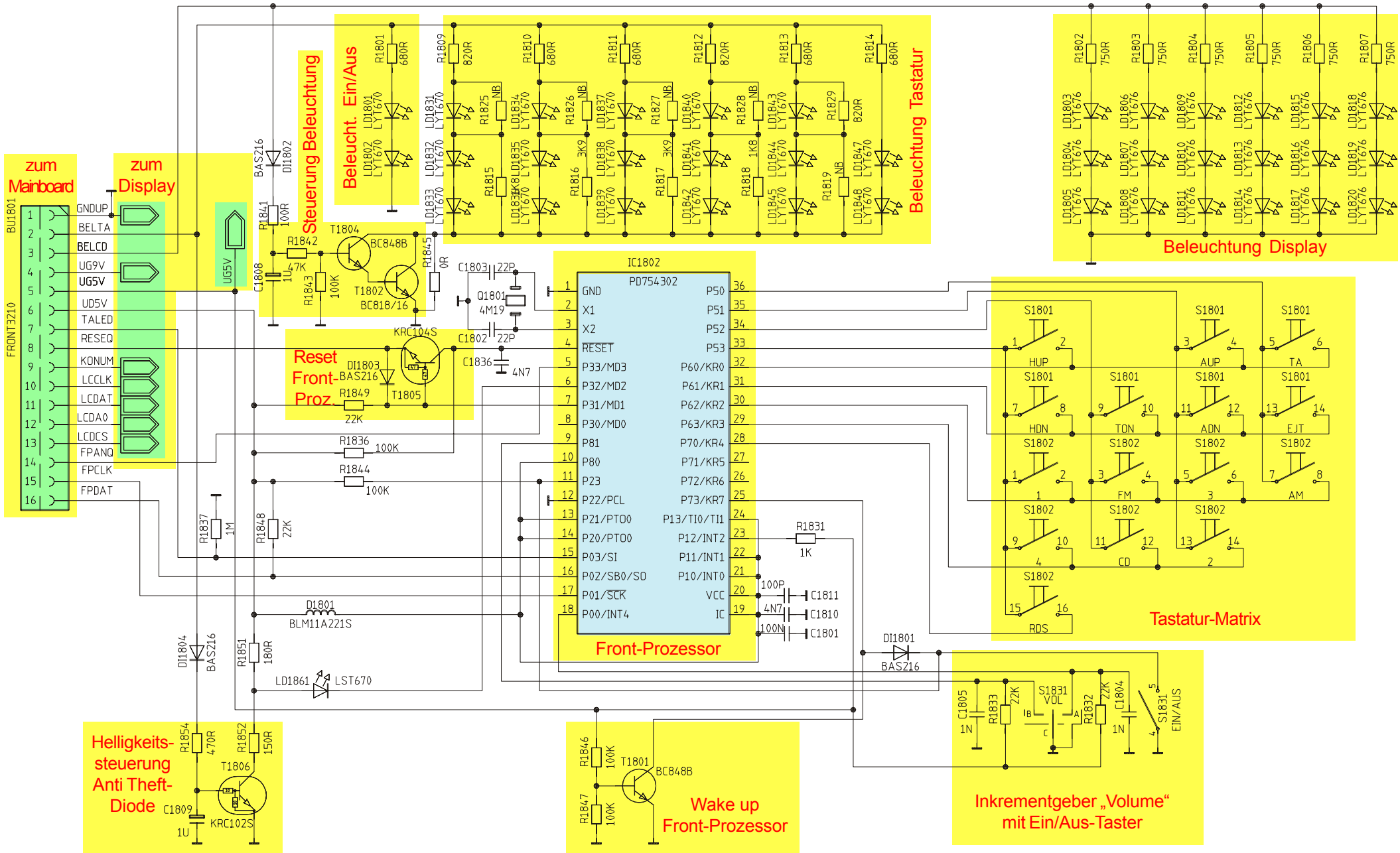

SPG
NF
ST2
ST1
ST3
DIG
UG5V
UBATT
D501
BLM11A601S
ENDMU
ENDIA
ENDSB
IC502
IC503
BA4558F PWR
VCC+
VCC-
C520 470N
C521 470N
R519 2K2
R520 2K2
C519 22U
R503 10K
NF-Endstufe
IC501
TDA7454
STB
CD
MUTE
SVR
IN1
IN2
STD/HI
IN3
IN4
SGND
TAB
VCC1
VCC2
PGND1
PGND2
PGND3
O1+
O1-
O2+
O2-
O3+
O3-
O4+
O4-
NFFR+
NFFR-
NFHR+
NFHR-
NFFL+
NFFL-
NFHL+
NFHL-
R501 10K
R502 10K
R504 10K
R505 10K
C503 100N
C504 1U
C505 470U
R506 0R
C501 1M
C502 100N
"L" bei ENDSB = Stand-by;
bei ENDSB = "H" und ENDMU = "L" = Mute;
bei ENDSB = "H" und ENDMU = "H" = Play;
NF-Filter
DSPFR-
DSPFR+
DSPHR-
DSPHR+
DSPFL-
DSPFL+
DSPHL-
DSPHL+
R521 22K
R522 22K
R523 22K
R524 22K
R533 22K
R534 22K
R535 22K
R536 22K
R511 10K
R512 22K
R513 10K
R514 22K
R515 10K
R516 22K
R517 10K
R518 22K
R525 22K
R526 10K
R527 22K
R528 10K
R529 22K
R530 10K
R531 22K
R532 10K
C514 100P
C515 100P
C516 100P
C517 100P
C522 820P
C523 820P
C524 820P
C525 820P
C526 820P
C527 100P
C528 820P
C529 100P
C530 820P
C531 100P
C532 820P
C533 100P
C506 1U
C507 1U
C508 1U
C509 1U
R507 2K2
R508 2K2
R509 2K2
R510 2K2
C510 2N7
C511 2N7
C512 2N7
C513 2N7

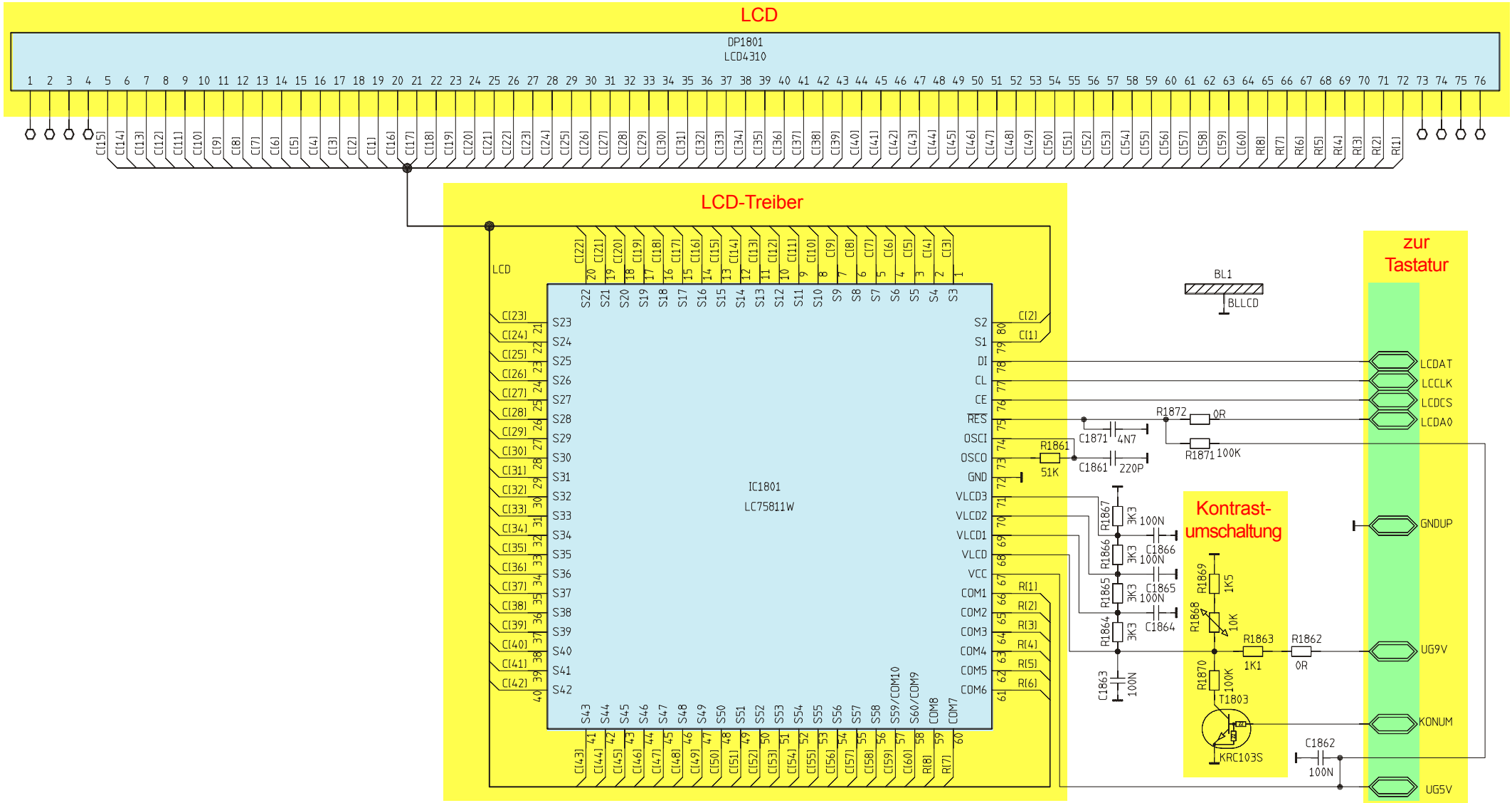

SPG
ST1
ST2
ST3
DIG
NF
12V - Ant.
AUTAN
DNANT
UBATT
UG5V
TELMU
TELUP
Telefon-Mute
D2B-Wake up
WKUP1
WAKUP
WKUPD
K-Line
KBRXD
KBTXD
KBUS
CAN
CANHQ
CANTX
CANRX
CANERQ
CASTQ
CAENB
CANL
CANH
TJA1053
SPG
DIG
DSPRXD
DSPTXD
UG5V
OT2100
TRANSCEIVER
Fot-unit


EEPROM
IC1050
24LC04B
Prozessor
C161CI
IC900
RAM
IC901
LC35256
RAM_32Kx8
Flash-
Programierung
ST900
32K768Hz
16M
6MB
SPG
ST2
ST1
NF
ST3
DIG
E2PWP
CLOK2
DATA2
RESEQ
RESTOQ
LCDA0
LCDCS
LEDTG
DSPMUT
DSPALA
DSPCLK
DSPREQ
DSPDAT
BPWM1
BPWM2
TUNDAT
TUNCLK
FM1FS
FM1ADJ
FM1MUP
FM1ST
ENDIA
FM1DEV
SPUSW
UG5V
UG5VR
UG3VR
UD5PE
ADBUS
RDSD1
ENDSB
CANTX
CANRX
TALED
CCEJT
FPCLK
CCLDG
CANERQ
LCCLK
TUNENB
KBRXD
KBTXD
ONUG
TELUP
CDMSB
RDSDAV
RDSCL
DSPIRQ
CDNS
CANIRQ
WKUPI
FPAND
CAENB
CASTO
CCMET
ONUG
CCPSE
FPDAT
LCDAT
KBTXD
KBRXD


SPG
DIG
ST2
ST3
NF
ST1
BU751
EF 18
WCLK 17
DATA 16
GND_V2 15
SCLK 14
GND_V2 13
ExtClk 12
GND_V2 11
S/P-DIF 10
GND_V2 9
"L"=Reset 8
V2=3V3 7
I2C_CRQ 6
I2C_SDA 5
I2C_SCL 4
V1=8V 3
GND_V1 2
InsSwitch 1
zum Single-CD-Player
DSPMCK
DSPSRQ
R754 0R
R755 0R
R756 18K
R757 18K
R758 18K
D751 BLM41P750S
C753 100N
UG3V3
(CDSREQ) CCEJT
(CDSIRQ) CCMSB
(CDSDA) CCMET
(CDSCL) CCPSE
UBATT
D755 BLM41P750S
T754 2SD2394F
SCD-Steuerung - Betriebsspannung
R753 4K7
T752 BC858C
C751 22N
R752 1K
C752 470N
C756 100U
R751 10R
R759 10R
R728 0R
C725 100U
UG8,75V---UG9V-
R760 4K7
T753 KRC102S
(CDSON) CCLDG
(CDSIN) CCINS


ST3
ST2
ST1
SPG
NF
DIG
C806
C807
C808
C809
C810
C811
C812
C813
C814
C815
C816
C817
C818
C819
C820
100P
FPDAT
FPCLK
FPANQ
LCDCS
LCDA0
LCDAT
LCCLK
RESEQ
TALED
UD5V
UG5V
UG9V
KONUM
BELCD
BELTA
ST802
zur Front 9090
LEDON
BPWM2
KL30B
BPWM1
LEDTG
R814
0R
KRA103S
T805
R809
10K
C805
560P
R811
1K
BCX52/16
T807
R810
T806
KRC102S
R820
10R
R821
R822
C821
100U
T802
R808
T804
R825
470R
R826
T809
R824
T803
R807
R806
C804
T810
Beleuchtungs-
steuerung
Tastatur / LCD


zum Mainboard
zum Display
BU1801
FRONT3210
GNDUP
BELTA
BELCD
UG9V
UG5V
UD5V
TALED
RESEQ
KONUM
LCCLK
LCDAT
LCDA0
LCDCS
FPANQ
FPCLK
FPDAT
Steuerung Beleuchtung
Beleucht. Ein/Aus
Beleuchtung Tastatur
Beleuchtung Display
Reset Front-Proz.
IC1802
PD754302
Front-Prozessor
Tastatur-Matrix
Helligkeits-steuerung Anti Theft-Diode
Wake up Front-Prozessor
Inkrementgeber „Volume“ mit Ein/Aus-Taster
HUP
AUP
TA
HDN
TON
ADN
EJT
FM
AM
CD
RDS
VOL
EIN/AUS


LCD
DP1801
LCD4310
LCD-Treiber
IC1801
LC75811W
zur Tastatur
Kontrast-umschaltung
BL1
BLLCD
LCDAT
LCCLK
LCDCS
LCDA0
GNDUP
UG9V
KONUM
UG5V
R1872 0R
C1871 4N7
R1871 100K
R1861 51K
C1861 220P
R1867 3K3
R1866 3K3
R1865 3K3
R1864 3K3
C1866 100N
C1865 100N
C1864 100N
C1863 100N
R1869 1K5
R1868 10K
R1863 1K1
R1862 0R
R1870 100K
T1803
KRC103S
C1862 100N

Testprogramm

1 und 2	gleichzeitig drücken →	BRA BECKER	Becker-Testmode ist aufgerufen
3	1 mal drücken →	SIG 10 89.5	z. B. 10 = Feldstärke z. B. 89.5 = Frequenz (MHz)
3	2 mal drücken →	VLT 6.4 12.9	Anzeige: minimale bzw. maximale Spannungswerte
3	3 mal drücken →	TYP 4410	Anzeige: Gerätetyp
3	4 mal drücken →	SER Y1053103	Anzeige: Seriennummer
3	5 mal drücken →	HW 21/99	Anzeige: aktueller Hardwarestand
3	6 mal drücken →	SW 22/00	Anzeige: aktueller Softwarestand
3	7 mal drücken →	DSP 210699 FC	Sahara Softwarestand

3	8 mal drücken	AMP STANDARD	angeschlossene Verstärker
3	9 mal drücken	SOL V03B0AT0A	SOL = Sollwert V03 = Lautstärkeeinstellung (00-2F mögliche Einstellungen durch Drehen des Lautstärkereglers); B0A = Bass Mittelstellung; T0A = Treble Mittelstellung
4	1 mal drücken	SOL F0A BAL0A	F0A = Fader Mittelstellung; BAL0A = Balance Mittelstellung
4	2 mal drücken	IST V03B0AT0A	IST = Istwert V03 = Lautstärkeeinstellung (00-2F mögliche Einstellungen durch Drehen des Lautstärkereglers); B0A = Bass Mittelstellung; T0A = Treble Mittelstellung
4	3 mal drücken	IST F0A BAL0A	F0A = Fader Mittelstellung; BAL0A = Balance Mittelstellung
4	4 mal drücken	LST V42B40T40	LST = letzte Lautstärkeänderung V42 = letzte Lautstärkeänderung B40 = Bass Mittelwert; T40 = Treble Mittelwert
4	5 mal drücken	LST F40 BAL40	F40 = Fader Mittelwert; BAL40 = Balance Mittelwert
3	10 mal drücken	GAL G:00 V:00	Anzeigewerte für GAL
3	11 mal drücken	PRG P:00	interne Testprogramme
3	12 mal drücken	DSR CNT:00	interne Testprogramme
3	13 mal drücken	END	Testprogramm Ende

Diebstahlsicherung über Baureihenkennung

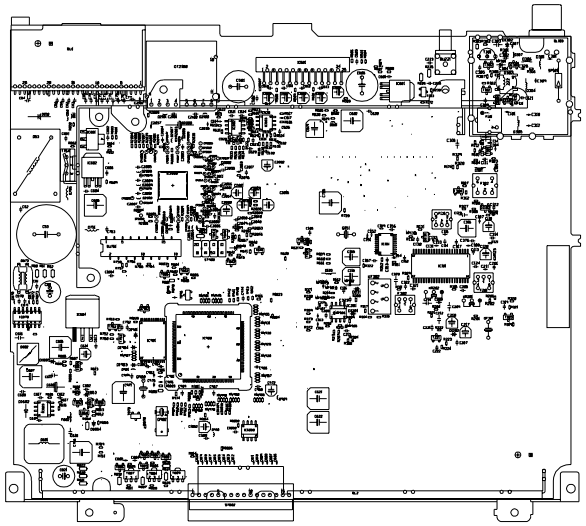
Die Geräte haben keinen Code, sind aber über den CAN-Bus mit dem Fahrzeug verheiratet. Das Radiogerät erhält über den CAN-Bus eine Baureihencodierung, diese wird beim Einschalten des Gerätes überprüft. Ist diese Kennung nicht vorhanden, so geht das Radio in den PROD Mode und ist nicht mehr bedienbar. Stimmen die Kennungen mit den Daten im EEPROM überein ist das Radio funktionsfähig.
Die „Verheiratung“ von Baureihe und Fahrzeug wird extern über den IS-Tester vorgenommen. Werksintern kann das Radio über eine spezielle Software und Hardwarekomponente freigeschaltet werden.

Technische Daten

Wellenbereiche:	FM 87,5 MHz - 108 MHz AM 531 kHz - 1620 kHz LW 153 kHz - 282 kHz SW 5800 kHz - 6250 kHz
Senderspeicher:	je 8 Stationsspeicher in FM, je 4 Stationsspeicher in MW, LW und KW
Übertragungsbereich:	50 Hz - 20 kHz bei CD - Betrieb 30 Hz - 15 kHz bei FM 50 Hz - 2,5 kHz bei AM, LW, SW
EON-Funktion:	
Regionalisierung:	ein- und ausschaltbar
Autostore:	FM, MW, LW
Ausgangsleistung:	4 x 15 Watt
Lautsprecherimpedanz:	min. 4 Ohm
GAL:	fix definierte Anhebung der Lautstärke
Antenne:	Impedanz 50 Ohm
Telefon Mute:	Low aktiv Pegel < 2 Volt
Versorgungsspannung:	12 Volt
Soundsystem:	Anschluß nur über D2B Optical Schnittstelle
CD Anschluß:	Es lassen sich nur MB CD - Wechsler mit D2B Optical-Schnittstelle anschließen.
Abspielbare CD's:	Es können nur CD's die der DIN EN 60908 entsprechen verwendet werden. Der Einsatz von 8 cm CD's mit Adapter ist nicht zu empfehlen

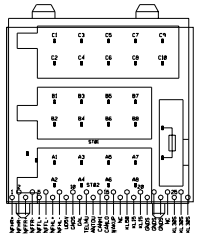
4010 Mainboard

Mainboard - bs - 19LL 2



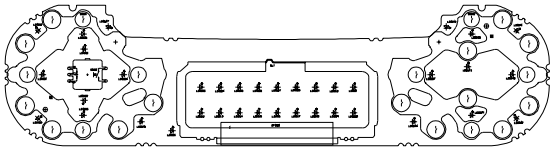
4040 Konnektor

Konnektor - bs - 08HJ 3

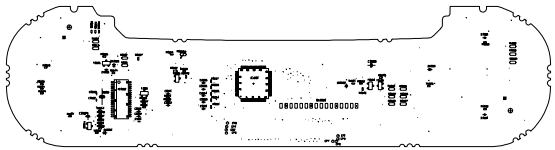


9090 Front

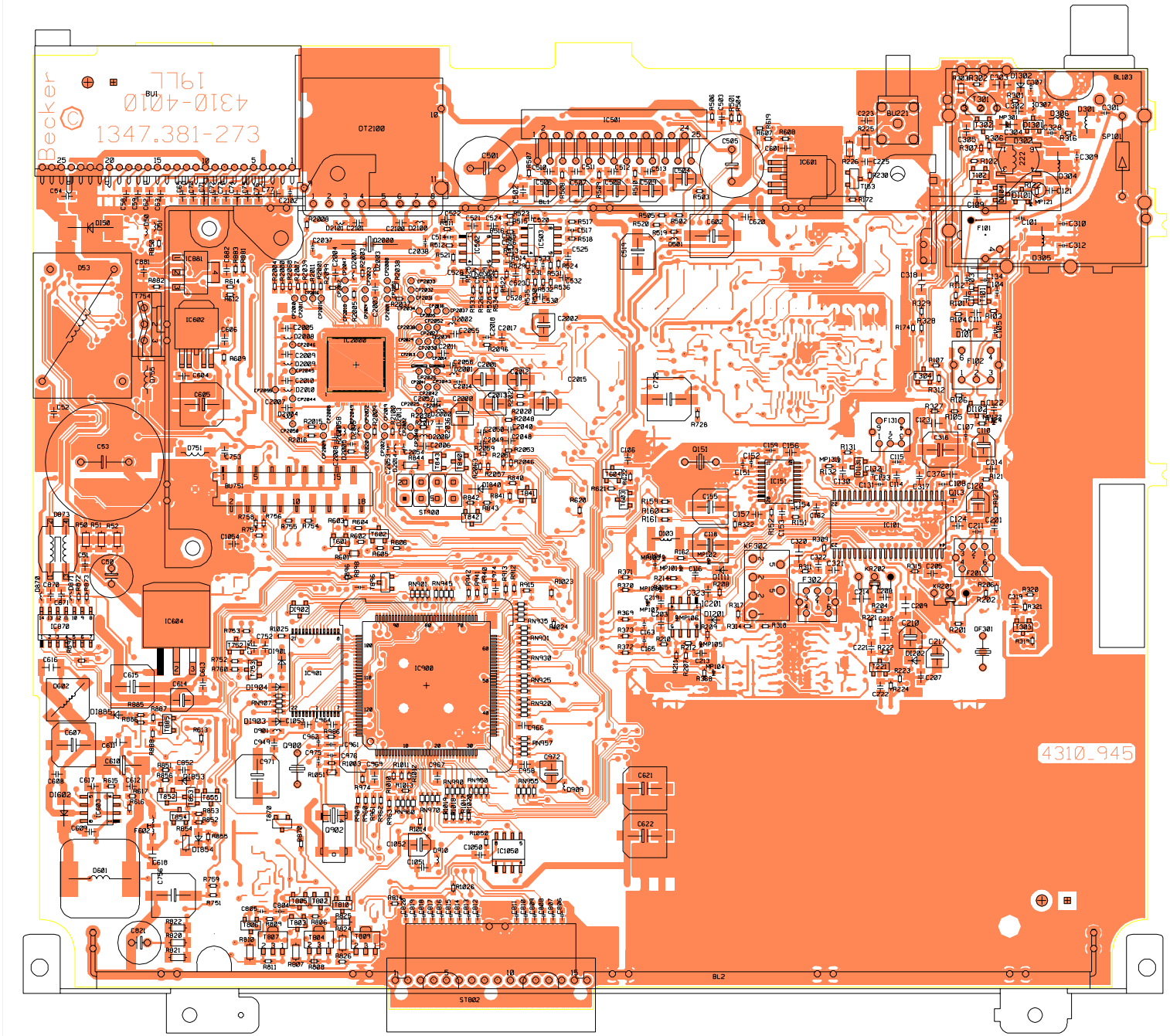
Front - bs/ls - 30DL 4



Bestückungsseite



Lötseite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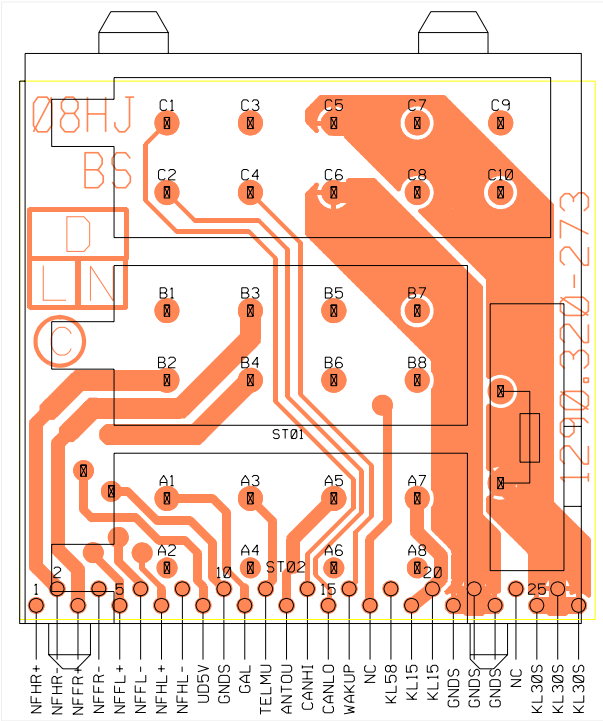
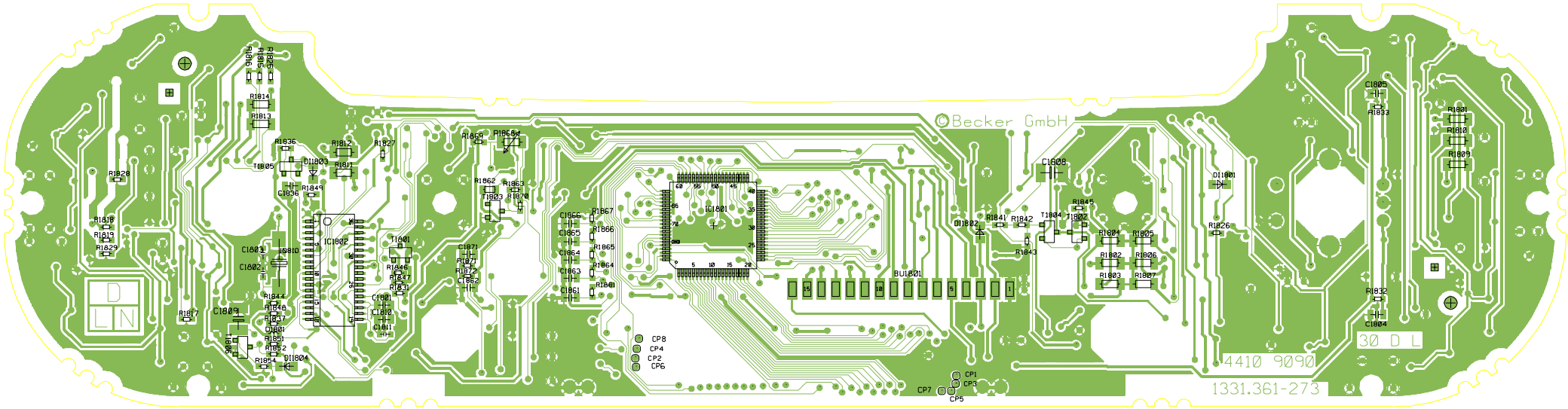

Ø8HJ
BS
D
L
N
C
C1
C3
C5
C7
C9
C2
C4
C6
C8
C10
B1
B3
B5
B7
B2
B4
B6
B8
ST01
A1
A3
A5
A7
A2
A4
A6
A8
ST02
1
5
10
15
20
25
NFHR+
NFHR-
NFFR+
NFFR-
NFFL+
NFFL-
NFHL+
NFHL-
UD5V
GNDS
CAL
TELMU
ANTOU
CANHI
CANLO
WAKUP
NC
KL58
KL15
KL15
GNDS
GNDS
GNDS
NC
KL30S
KL30S
KL30S
1290.320-273



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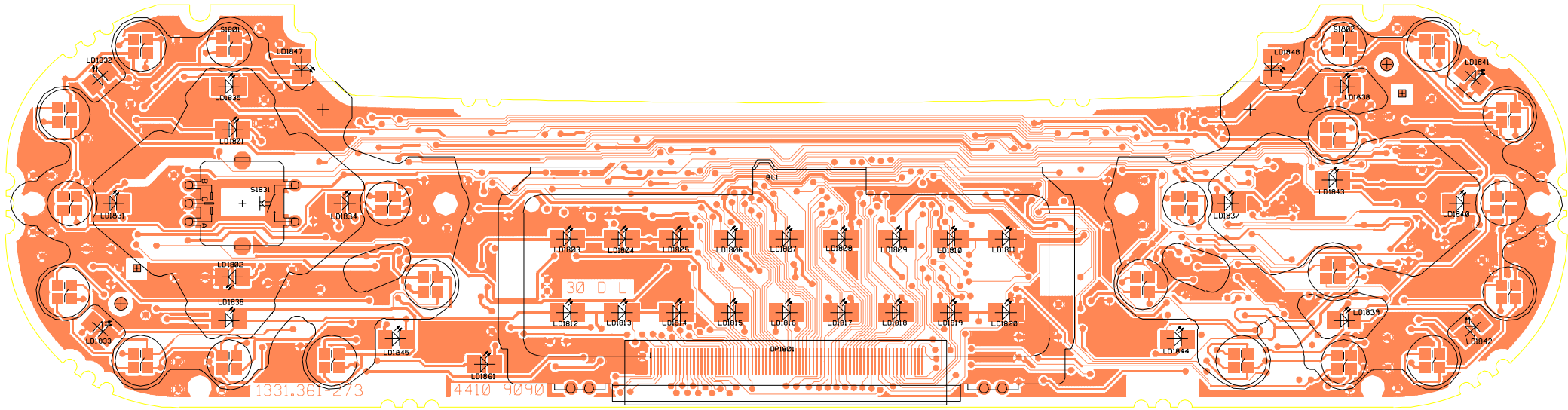

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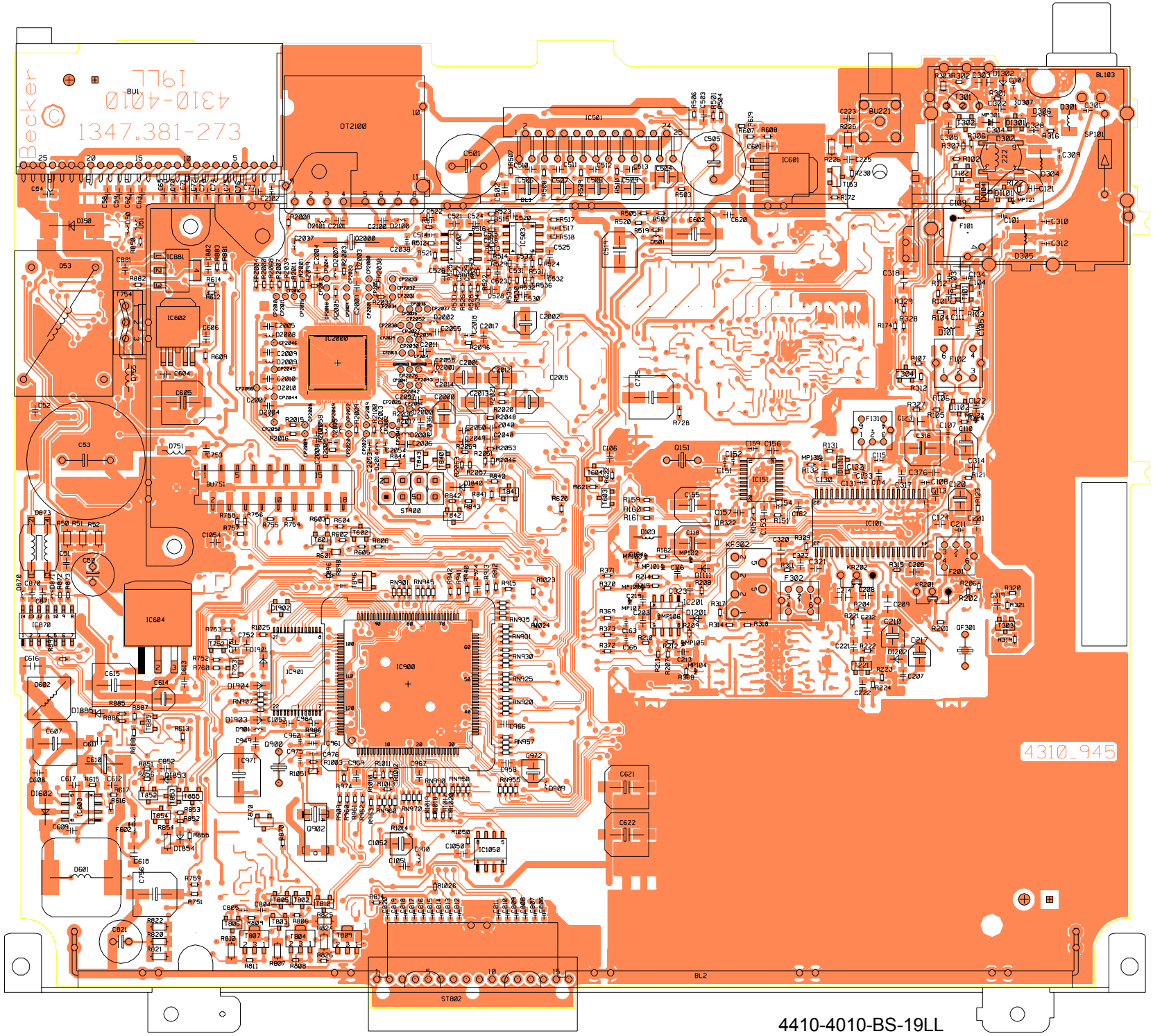
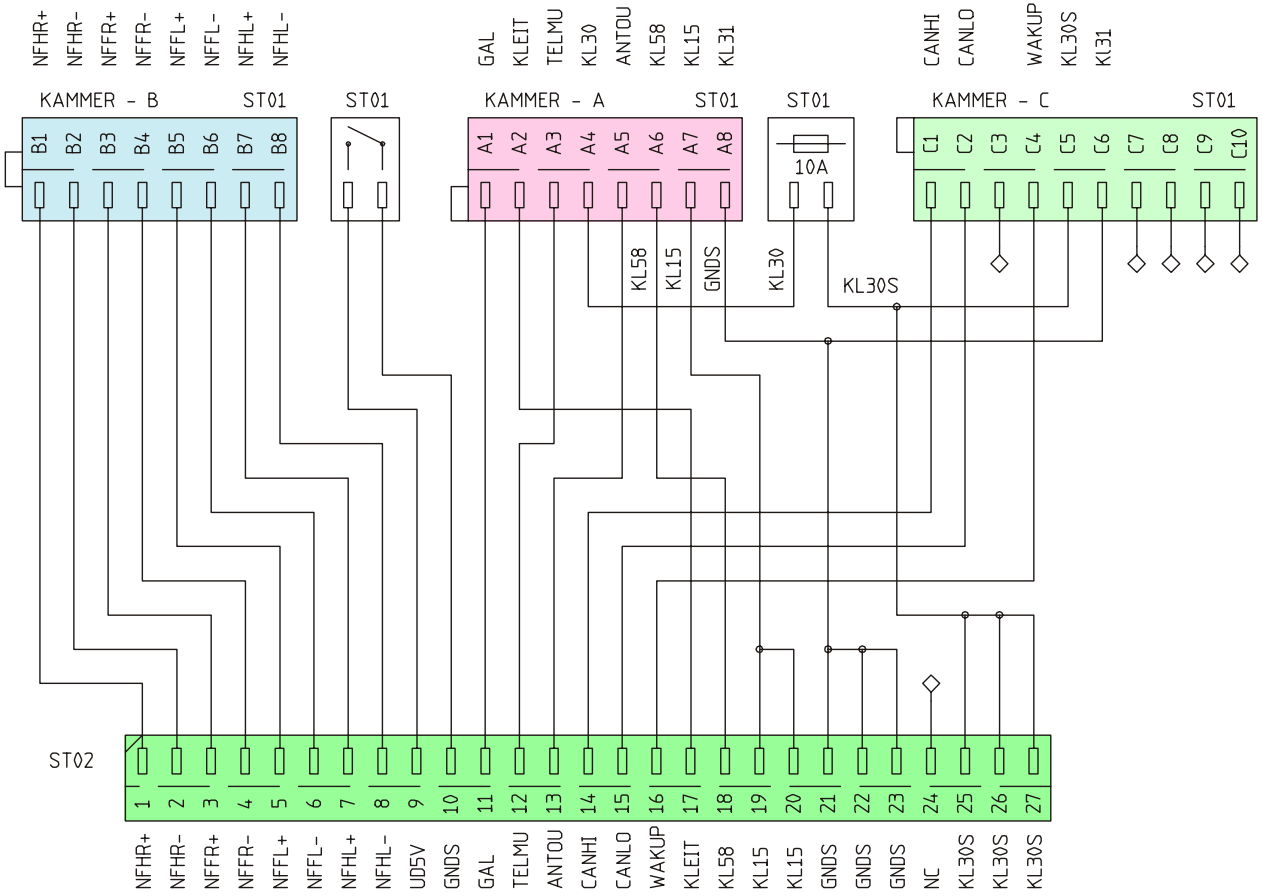
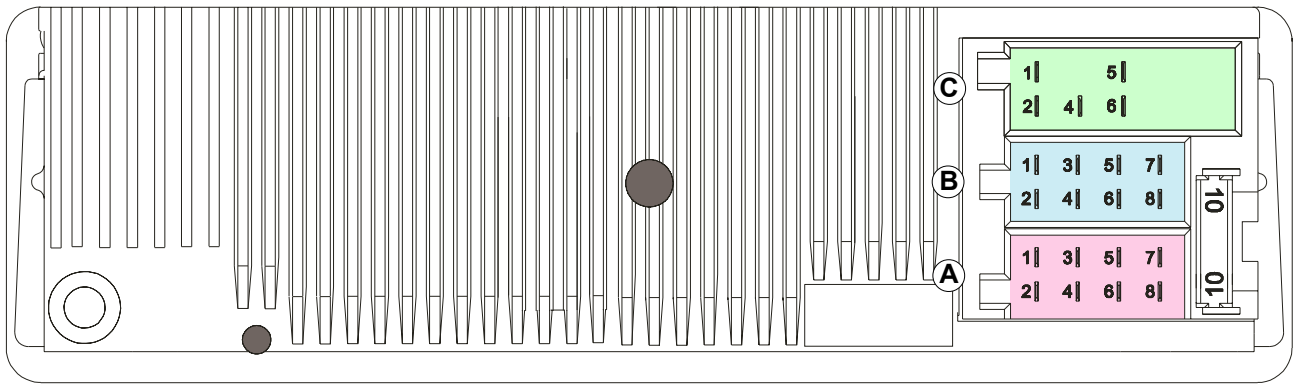
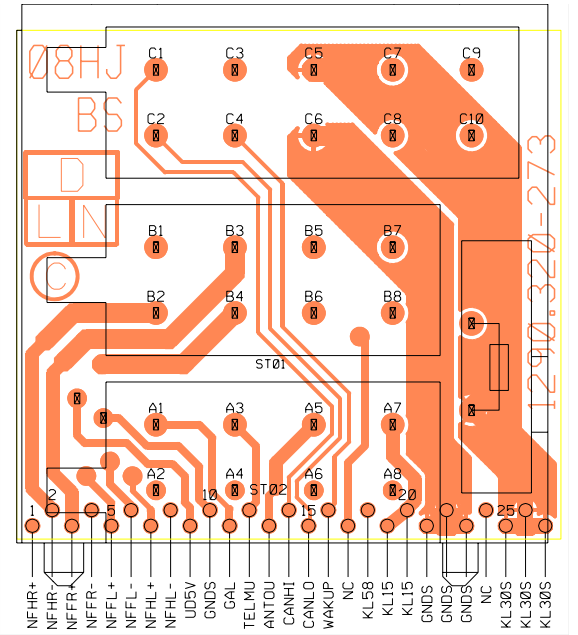


4410-4010-BS-19LL

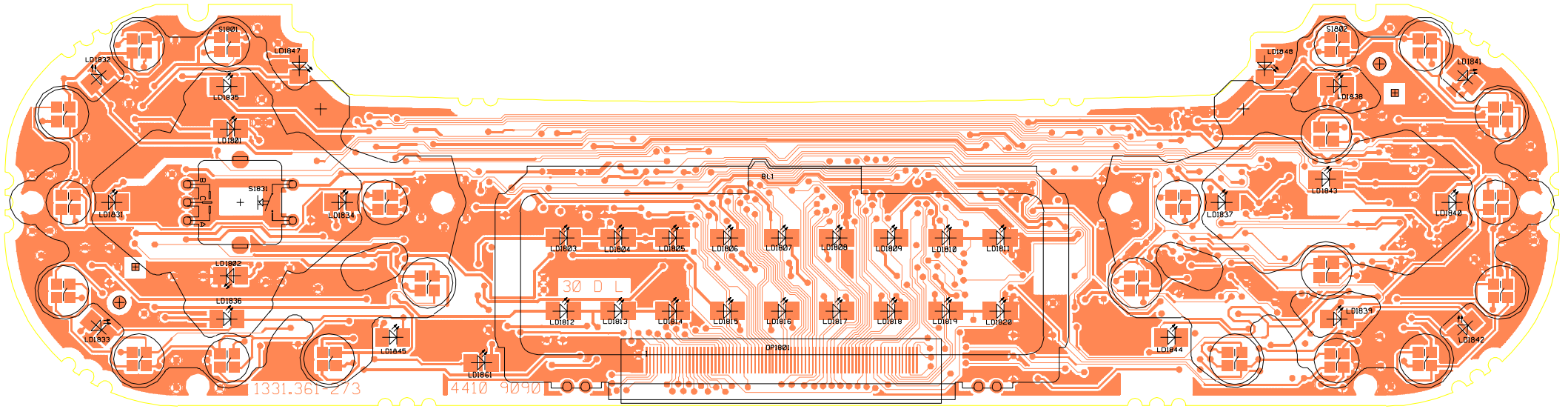

NFHR+ NFHR- NFFR+ NFFR- NFFL+ NFFL- NFHL+ NFHL-
KAMMER - B
ST01
B1 B2 B3 B4 B5 B6 B7 B8
ST01
GAL KLEIT TELMU KL30 ANTOU KL58 KL15 KL31
KAMMER - A
ST01
A1 A2 A3 A4 A5 A6 A7 A8
ST01
10A
CANHI CANLO WAKUP KL30S KL31
KAMMER - C
ST01
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10
KL58 KL15 GNDS KL30 KL30S
ST02
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
NFHR+ NFHR- NFFR+ NFFR- NFFL+ NFFL- NFHL+ NFHL- UD5V GNDS GAL TELMU ANTOU CANHI CANLO WAKUP KLEIT KL58 KL15 KL15 GNDS GNDS GNDS NC KL30S KL30S KL30S



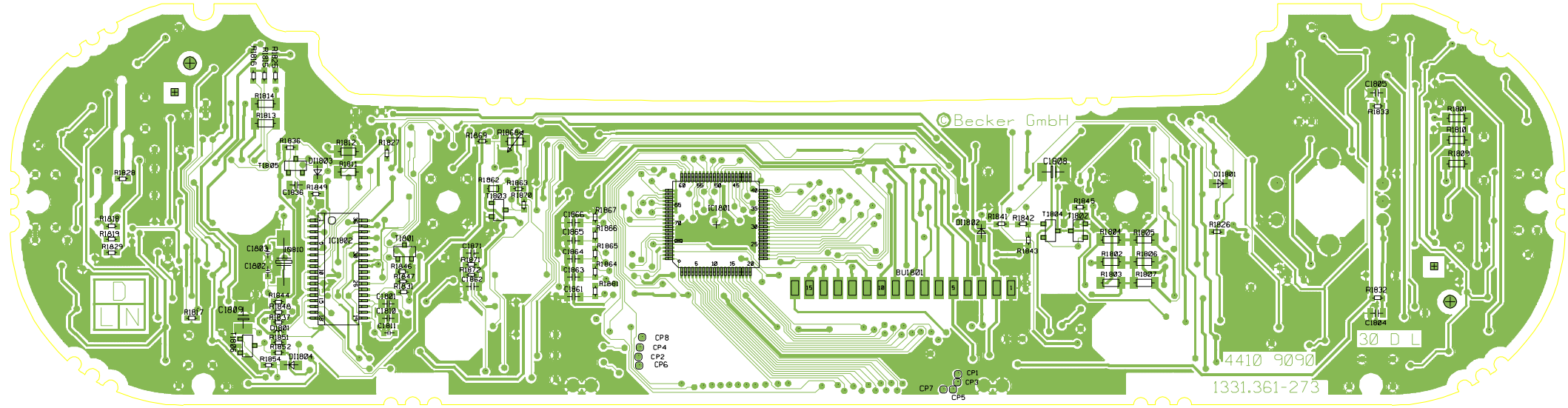

Ø8HJ
B5
D
LN
C
C1 C3 C5 C7 C9
C2 C4 C6 C8 C10
B1 B3 B5 B7
B2 B4 B6 B8
ST01
A1 A3 A5 A7
A2 A4 A6 A8
ST02
1 2 5 10 15 20 25
1290.320-273
NFHR+ NFHR- NFFR+ NFFR- NFFL+ NFFL- NFHL+ NFHL- UD5V GNDS GAL TELMU ANTOU CANHI CANLO WAKUP NC KL58 KL15 KL15 GNDS GNDS GNDS NC KL30S KL30S KL30S

PIN	Kammer Ⓐ	Kammer Ⓑ	Kammer Ⓒ
1	GAL	Lautsprecher Heck rechts+	CAN-High
2	K-Leitung	Lautsprecher Heck rechts -	CAN-Low
3	Telefon-Mute	Lautsprecher Front rechts+	
4	KL30 Batterie	Lautsprecher Front rechts -	Wake up-Leitung
5	Steuer-ausgang12V	Lautsprecher Front links+	Ubatt. (KL30) nach Sicherung
6	KL58 Beleuchtung	Lautsprecher Front links -	KL31 Masse
7	KL15 Zündung	Lautsprecher Heck links+	
8	KL31 Masse	Lautsprecher Heck links -	

Konnektor 4410



4410-9090-BS-30DL



4410-9090-LS-30DL

Schaltplan 4410CD DC Audio 10 A203 ECE

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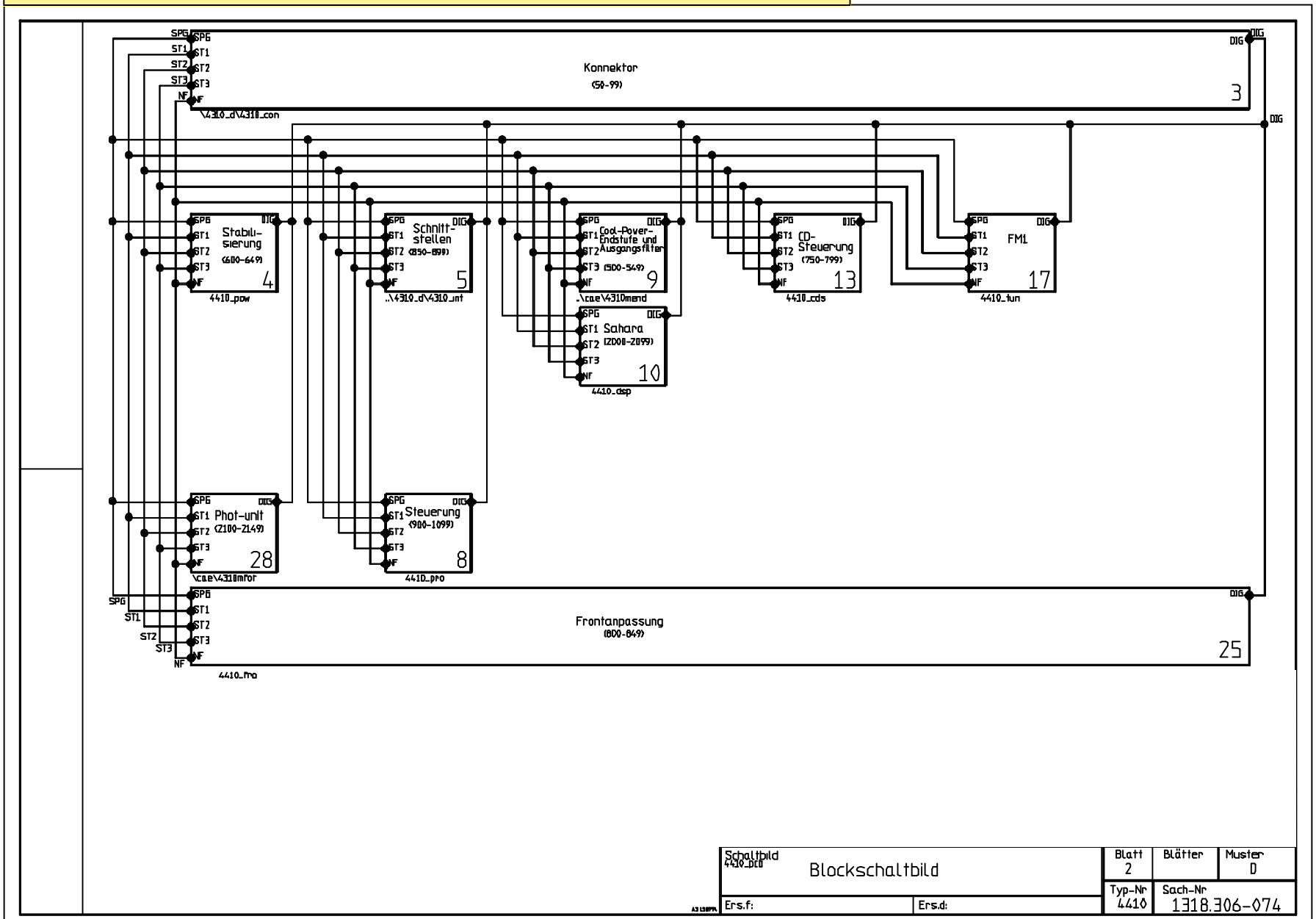
2	Block	4010	4410_pcb	hpgl	a	A3	07.04.99	Sengle
3	Connektor	"	4310mcon	hpgl		A4	30.03.99	Sengle
4	Stabilisierung	"	4410_pow	hpgl	a	A3	30.03.99	Se/Kro
5	Interface	"	4310_int	hpgl	a	A2	30.03.99	Sengle
8	Prozessor	"	4410_pro	hpgl	b	A2	30.03.99	Sengle
9	Endstufe	"	4310mend	hpgl		A3	02.03.99	Kro/Wi
10	Klangsteller	"	4410_dsp	hpgl	b	A2	06.04.99	Wiedem
13	CDS-Steuerung	"	4410_cds	hpgl		A3	29.05.98	Ra/Hoe
17	FM1	"	4410_tun	hpgl	c	A2	03.12.98	Steiner
25	Front-Interface	"	4410_fro	hpgl		A4	30.03.99	Goe/Se
28	D2B FOT-Unit	"	4310mfot	hpgl		A4	18.05.98	Wiedem
	Tastatur	9090	4410_tas	hpgl	a	A2	25.08.98	Goe.
	LCD	9090	4310_lcd	hpgl	a	A2	25.08.98	Goe.
	CC-Player ALP GR-S / LC		1271.210					

Schaltplan 4410CD DC Audio 10 A203 ECE



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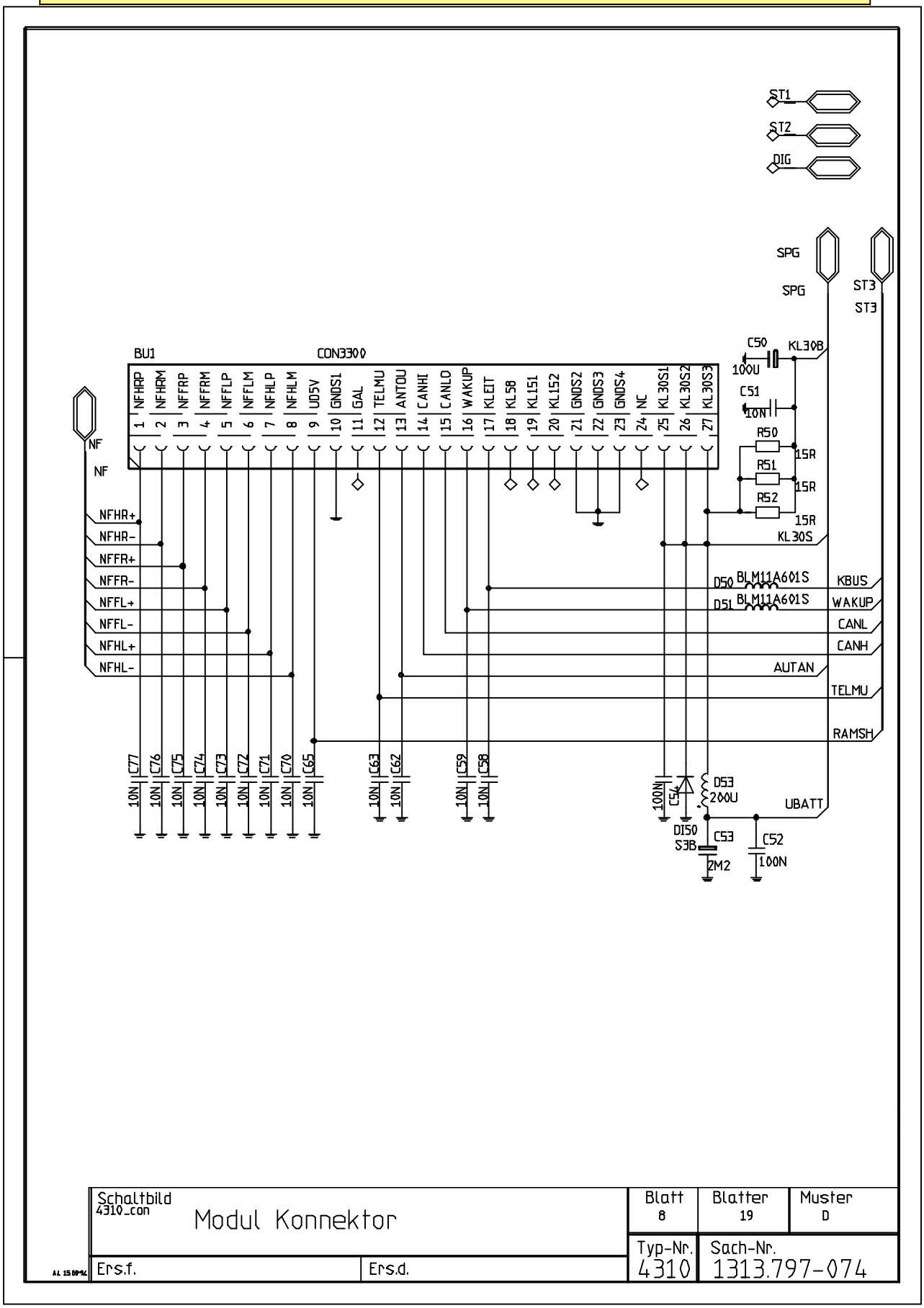

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Printed by CAMCAD :(4310_con.hp)

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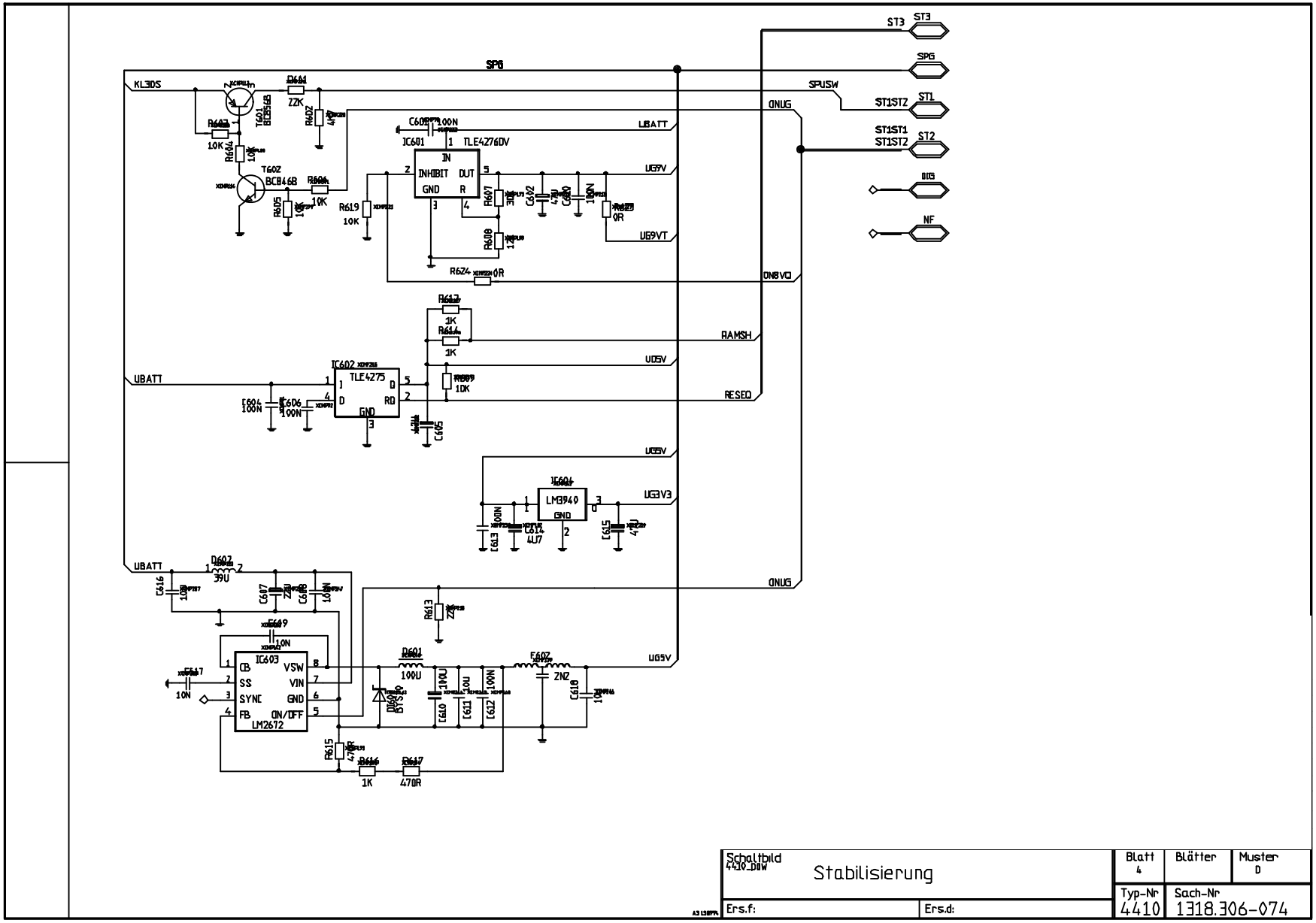

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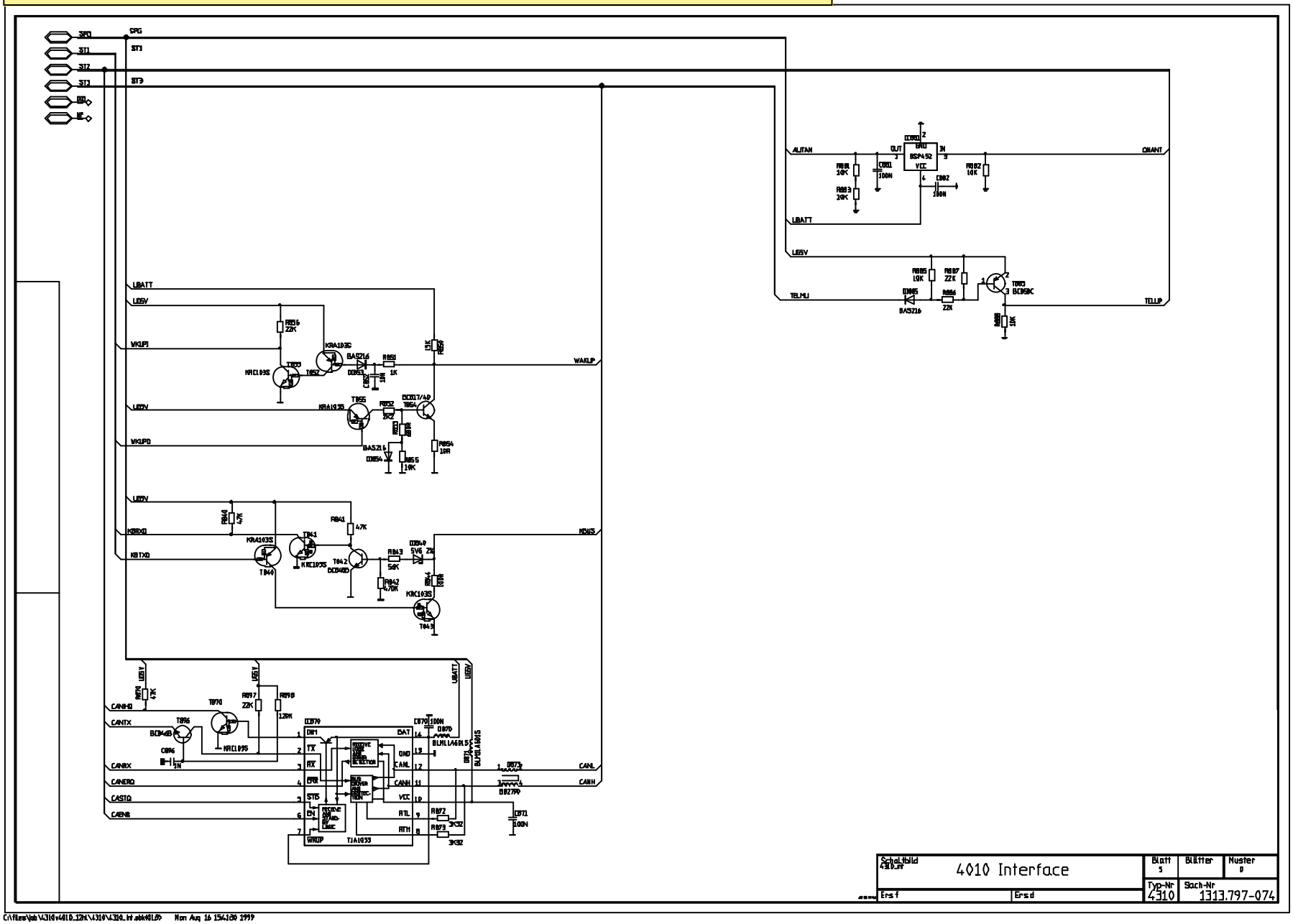

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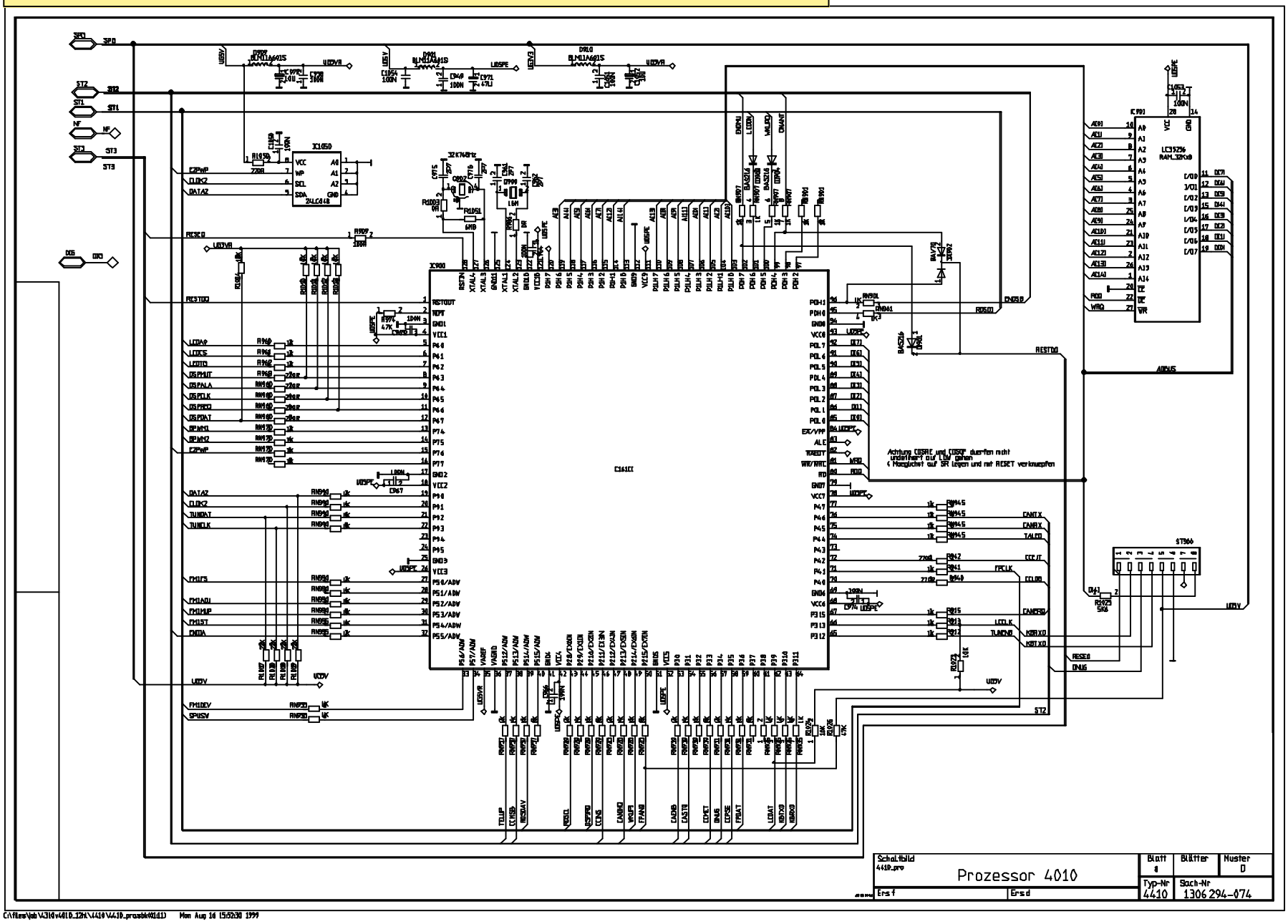

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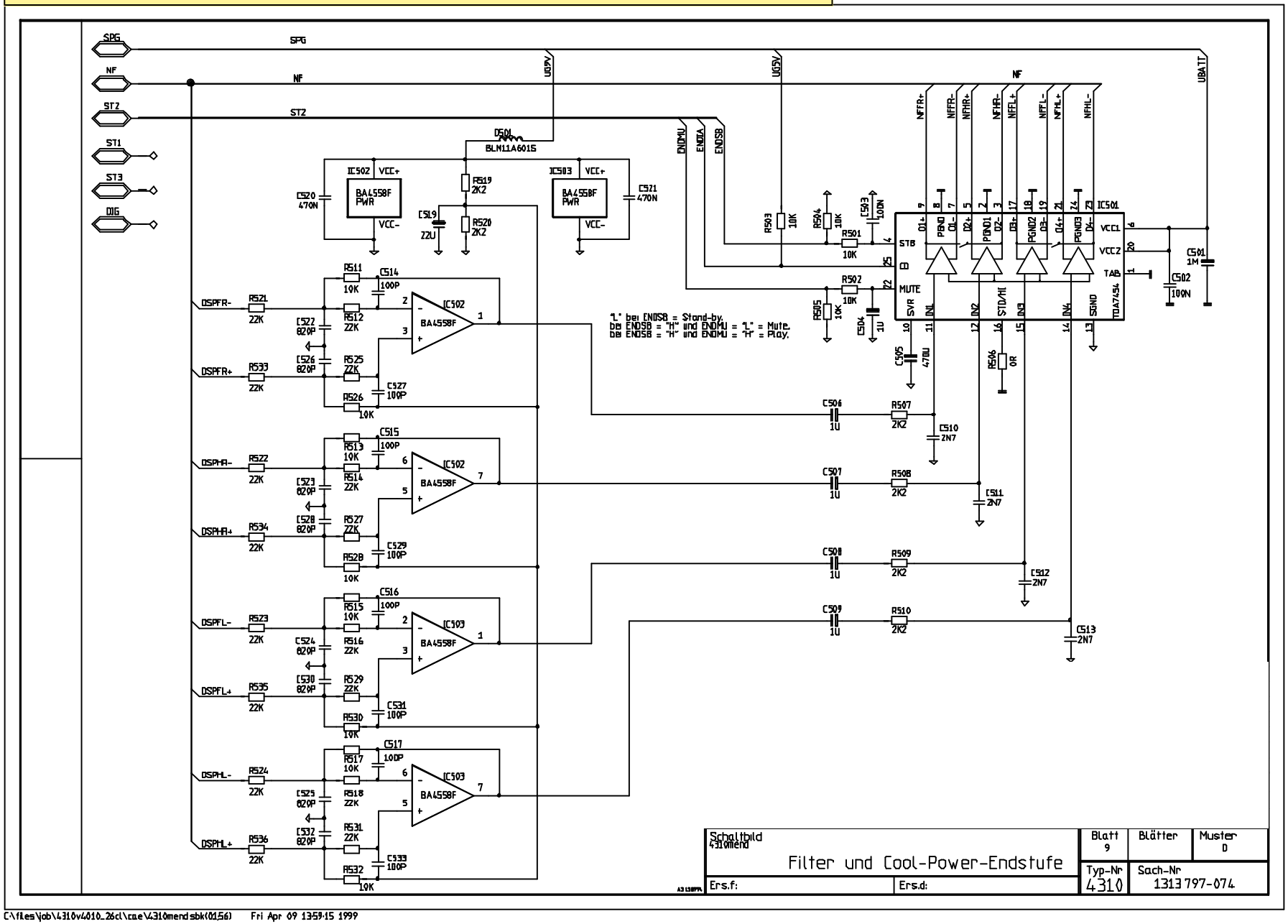

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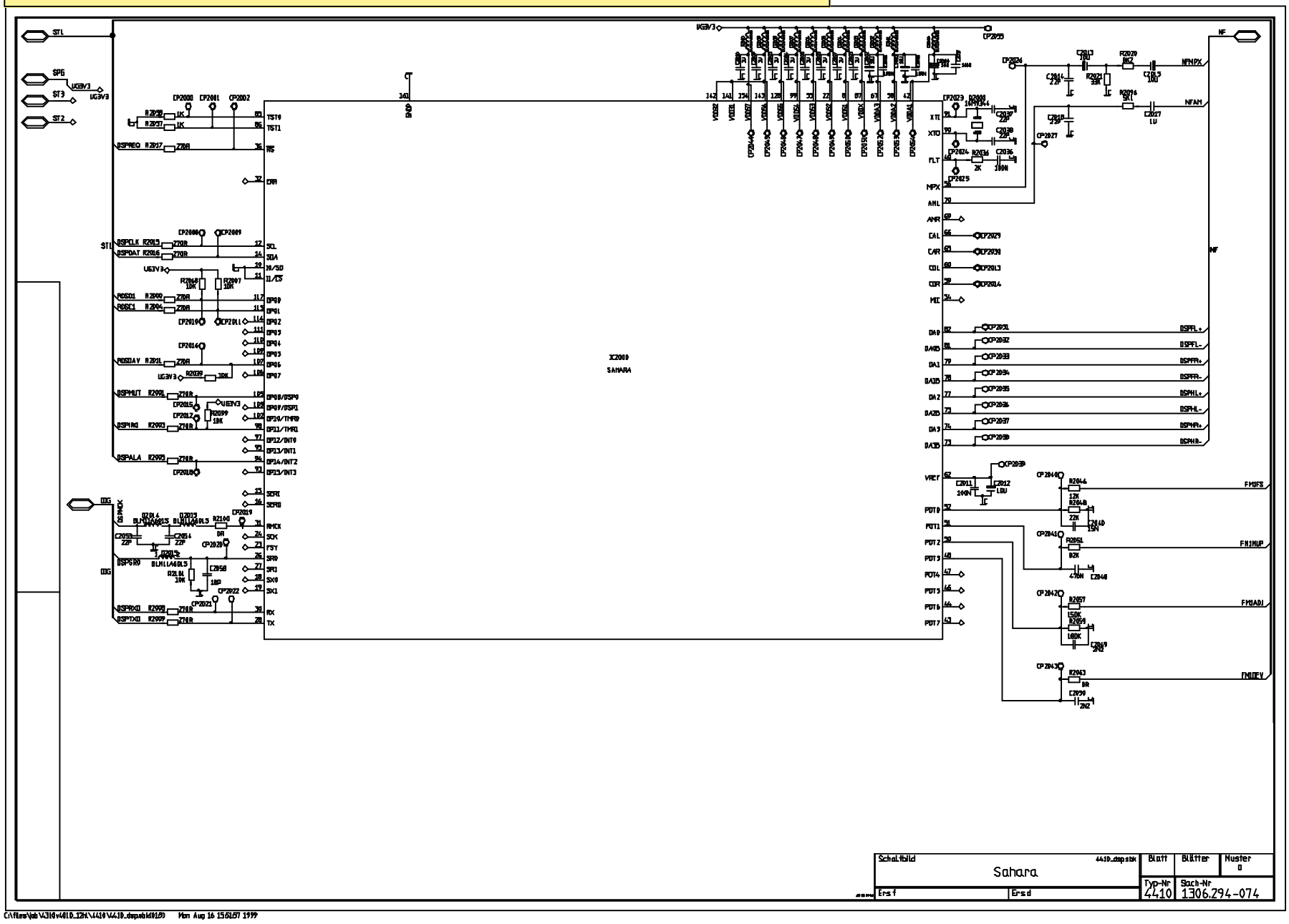

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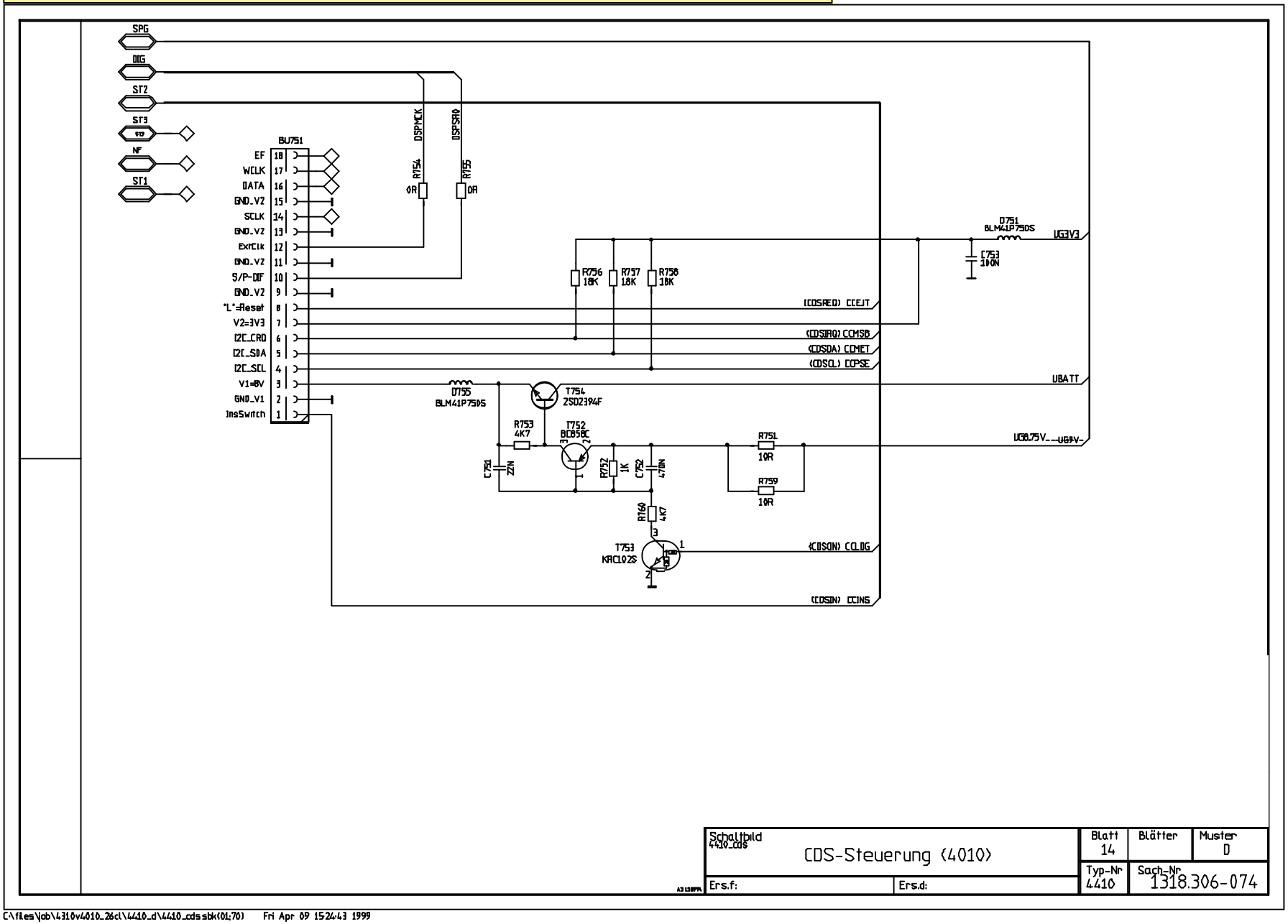

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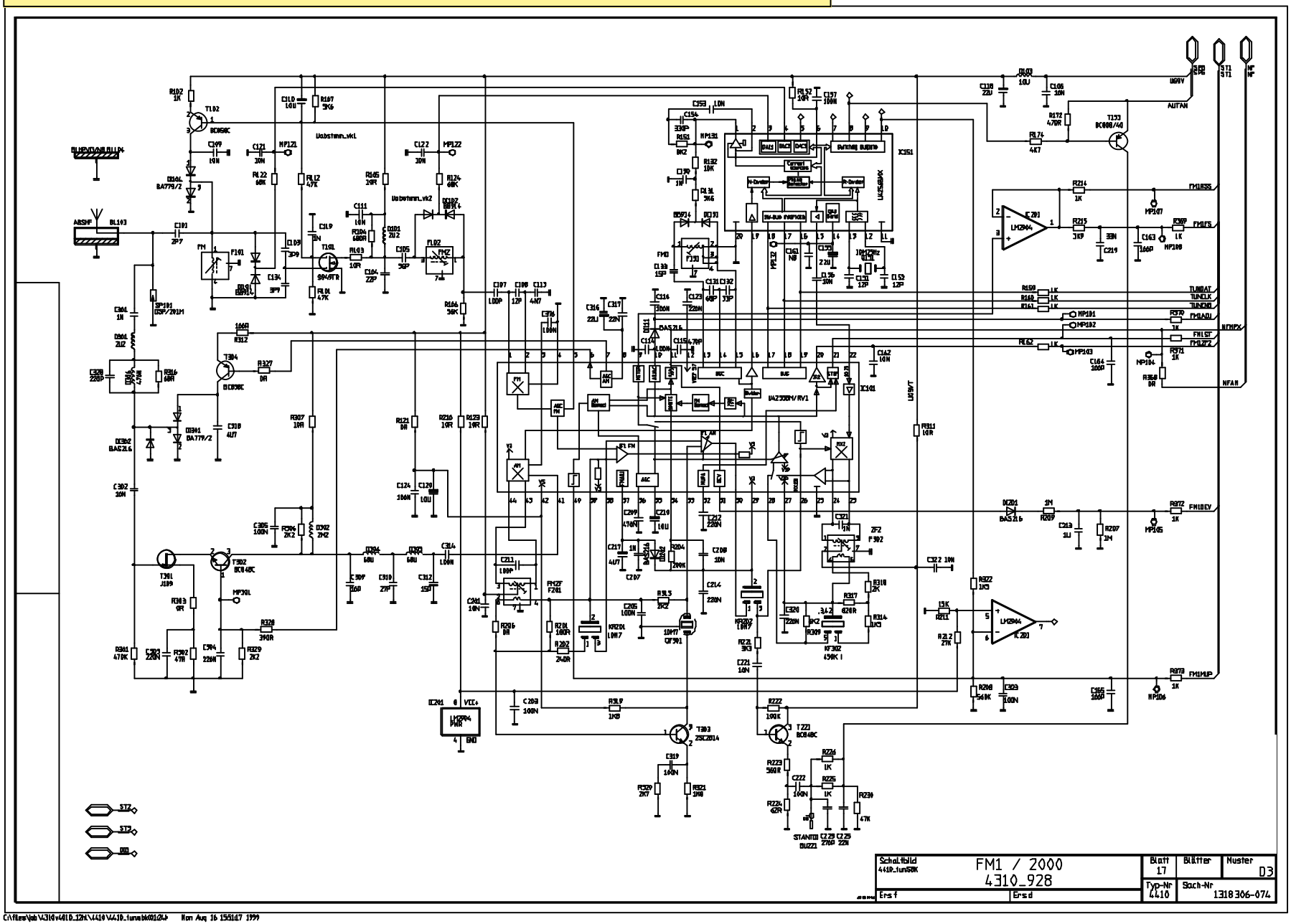

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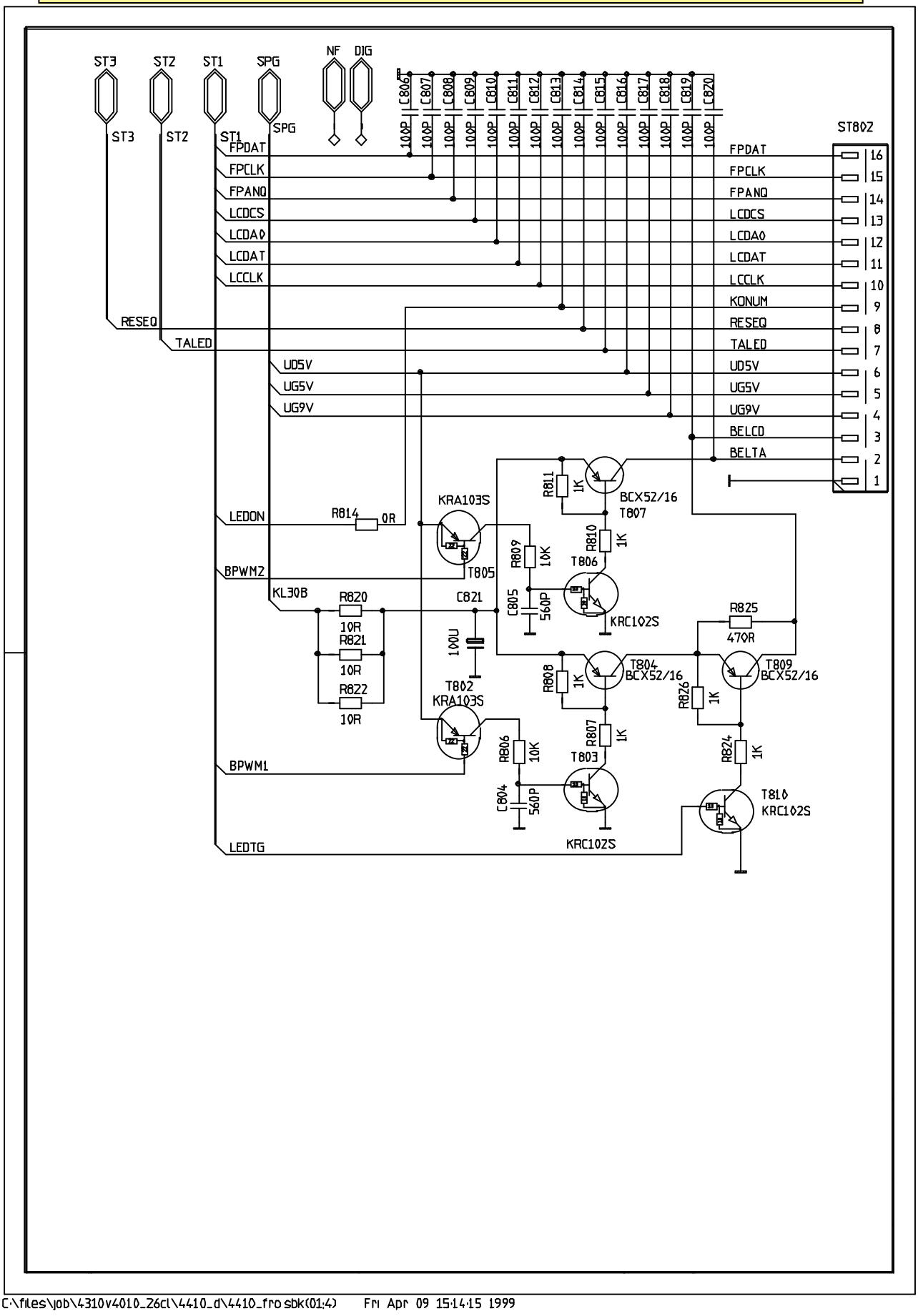

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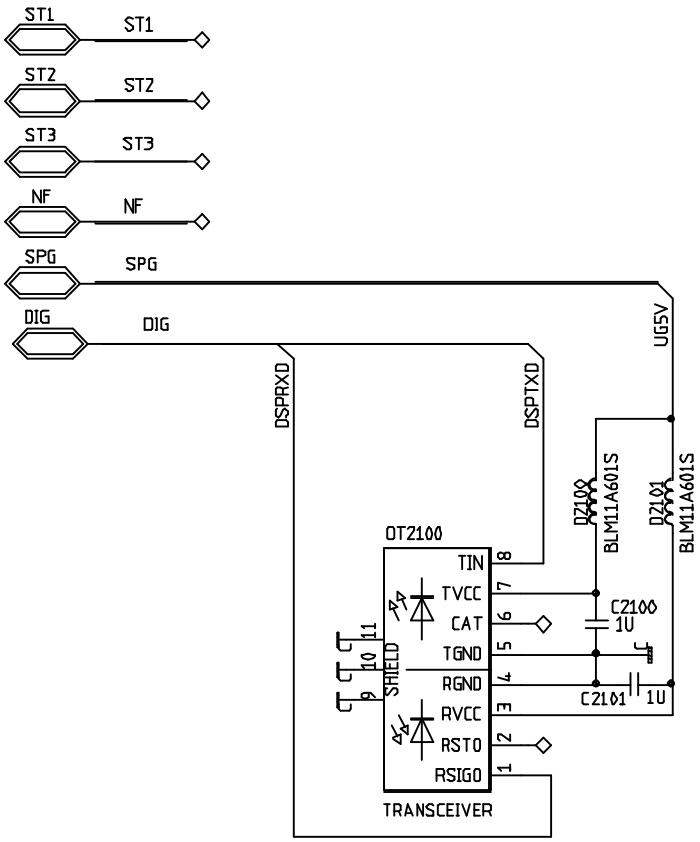
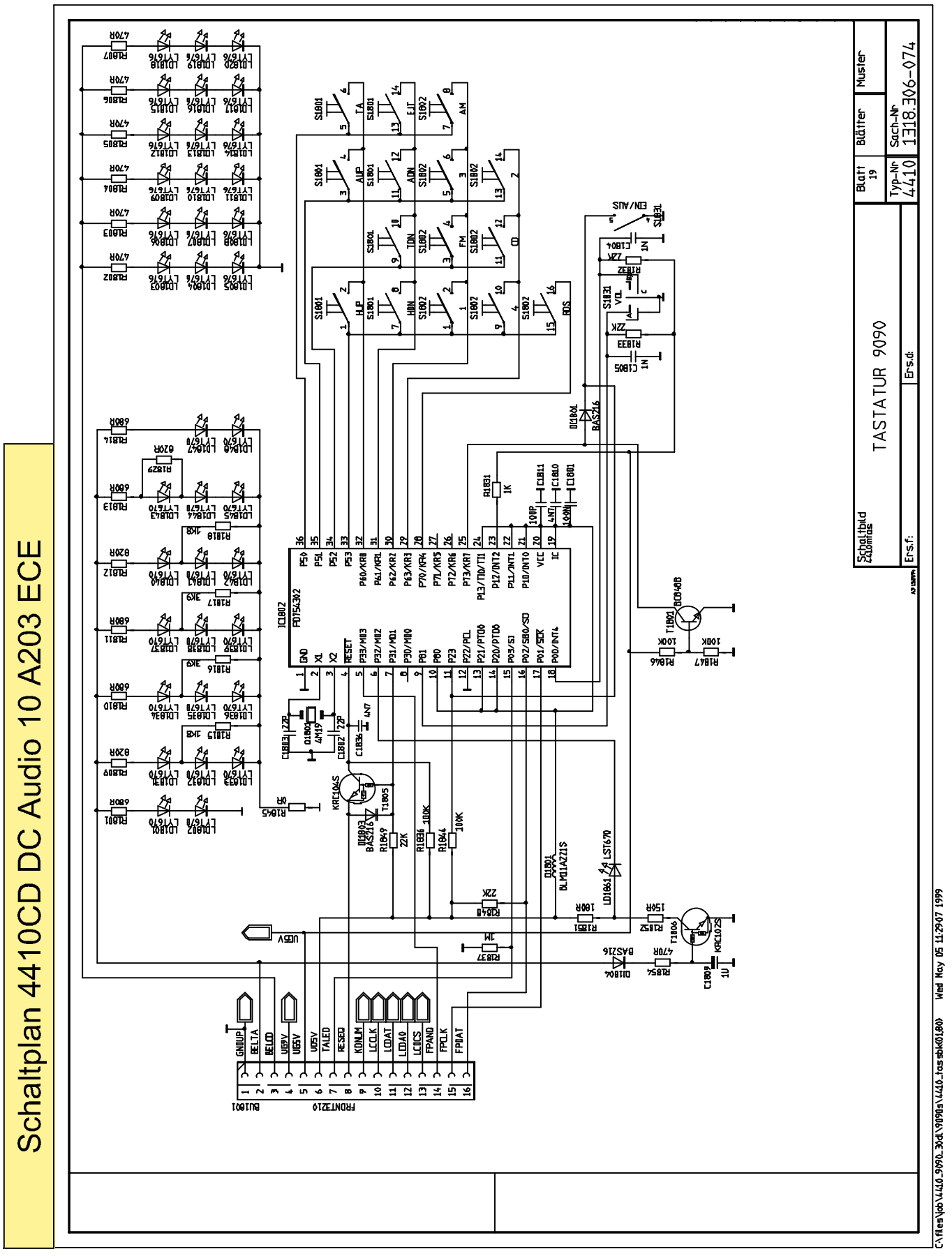


Schaltbild 4310mfot	D2B-FOT-Unit (MB/AMP)		Blatt 28	Blatter	Muster D
Ers.f.	Ers.d.		Typ-Nr. 4310	Sach-Nr. 1313.797-074

C:\files\job\4310v4010_26c1\cae\4310mfot.sbk(01;5) Fri Apr 09 14:01:51 1999



Printed by CAMCAD :(4410_tas.hp)

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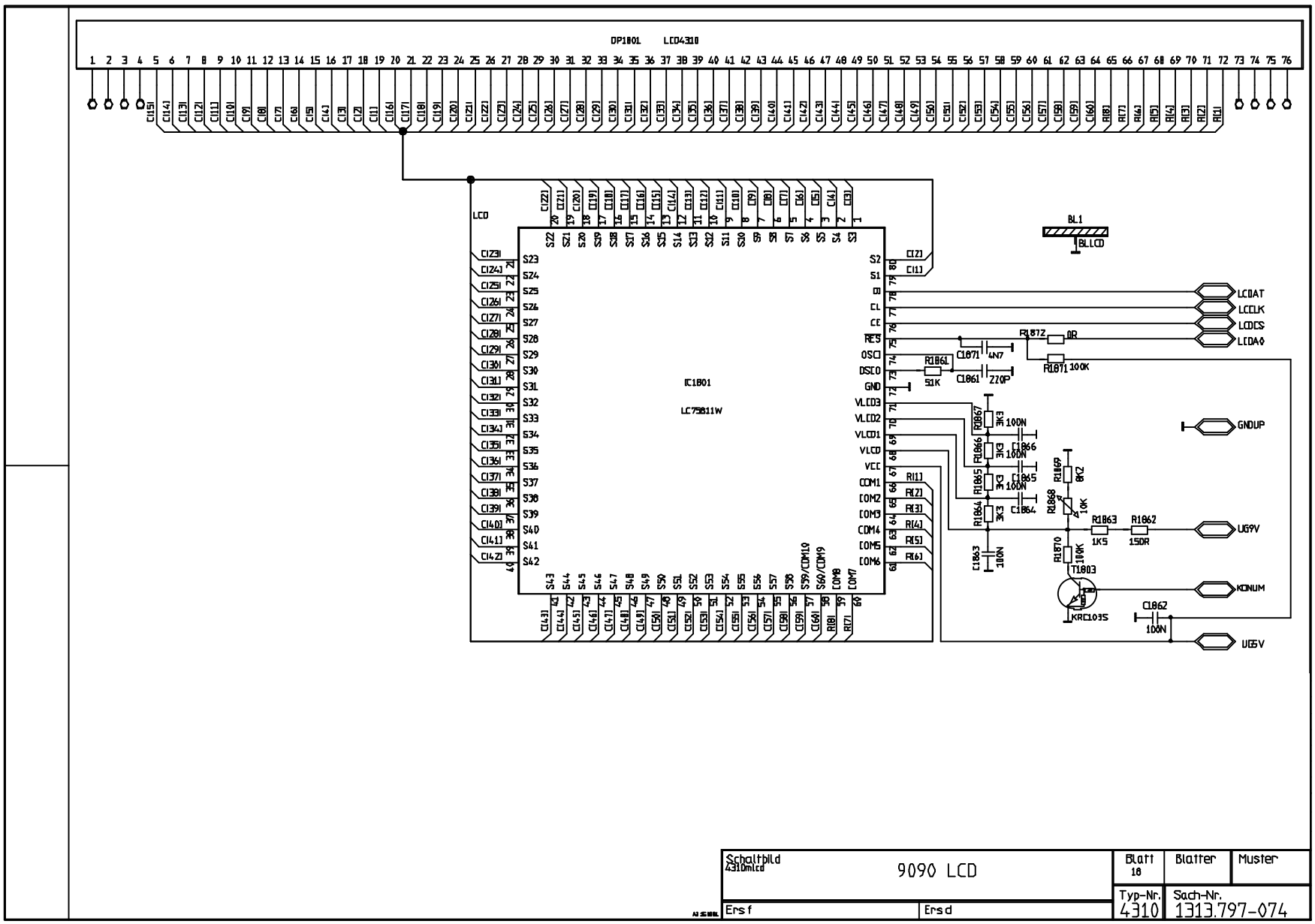

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Schaltplan 4410CD DC Audio 10 A203 ECE

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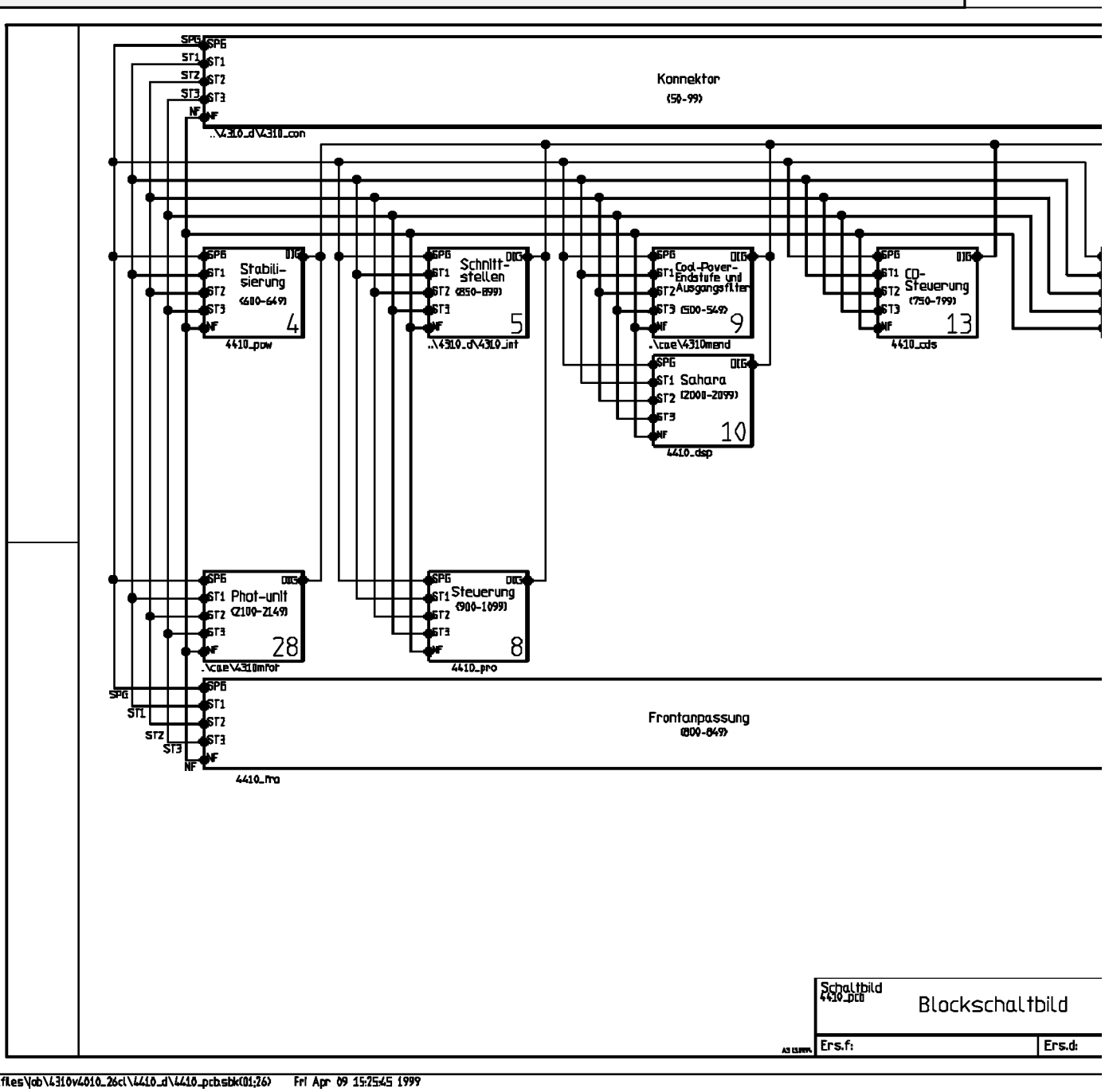
3	Connektor	"	4310mcon	hpgl		A4	30.03.99	Sengle
4	Stabilisierung	"	4410_pow	hpgl	a	A3	30.03.99	Se/Kro
5	Interface	"	4310_int	hpgl	a	A2	30.03.99	Sengle
8	Prozessor	"	4410_pro	hpgl	b	A2	30.03.99	Sengle
9	Endstufe	"	4310mend	hpgl		A3	02.03.99	Kro/Wi
10	Klangsteller	"	4410_dsp	hpgl	b	A2	06.04.99	Wiedem
13	CDS-Steuerung	"	4410_cds	hpgl		A3	29.05.98	Ra/Hoe
17	FM1	"	4410_tun	hpgl	c	A2	03.12.98	Steiner
25	Front-Interface	"	4410_fro	hpgl		A4	30.03.99	Goe/Se
28	D2B FOT-Unit	"	4310mfot	hpgl		A4	18.05.98	Wiedem
	Tastatur	9090	4410_tas	hpgl	a	A2	25.08.98	Goe.
	LCD	9090	4310_lcd	hpgl	a	A2	25.08.98	Goe.
	CC-Player ALP GR-S / LC		1271.210					

Schaltplan 4410CD DC Audio 10 A203 ECE



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Printed by CAMCAD :(4410_pcb.hp)

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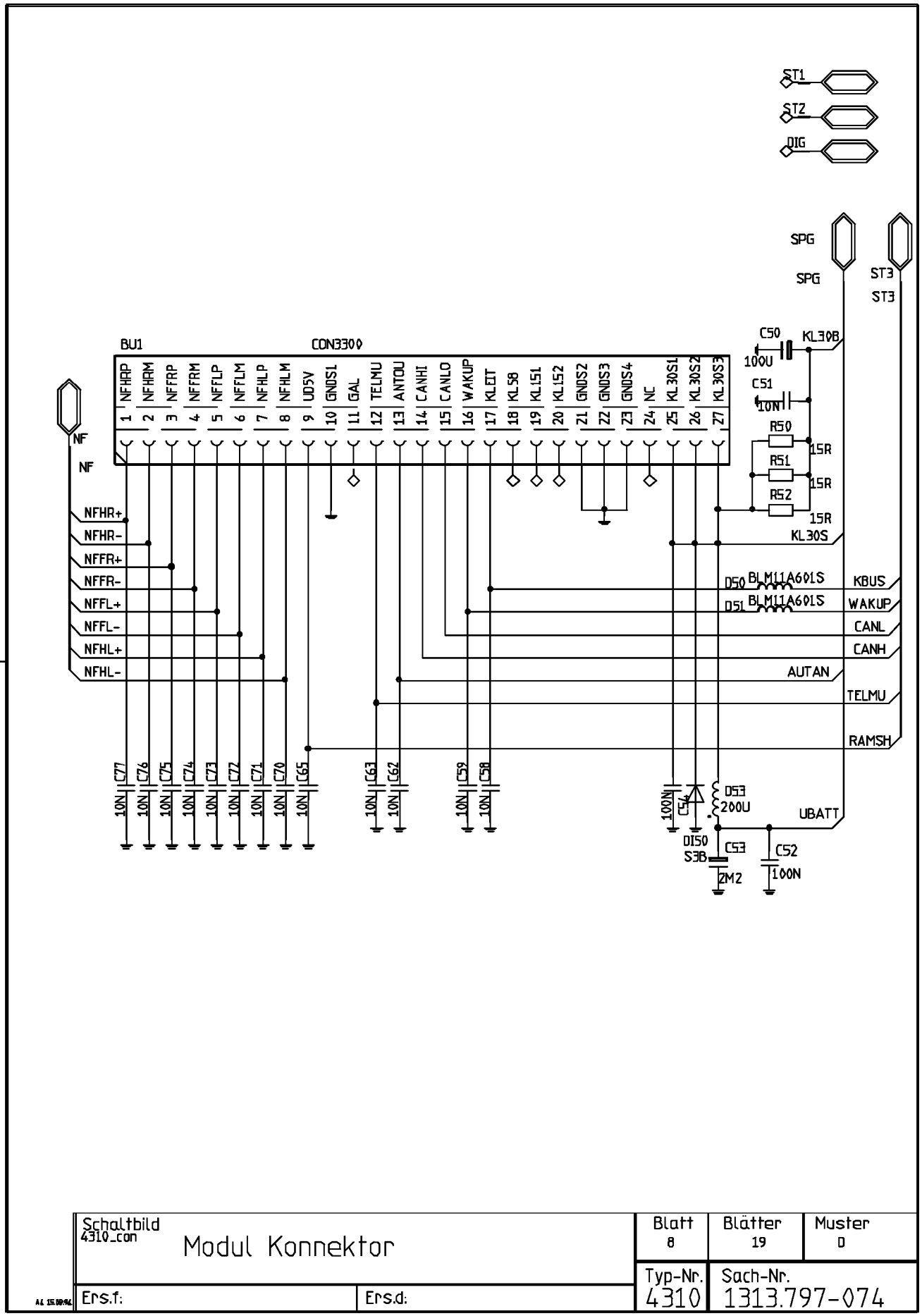

Schaltbild 4310_con: Modul Konnektor		Blatt 8	Blätter 19	Muster 0
Ers.f:	Ers.d:	Typ-Nr. 4310	Sach-Nr. 1313.797-074	

C:\files\job\4310v4010_26cl\4310_d\4310_con.sbk(01;7) Fri Apr 09 14:00:42 1999

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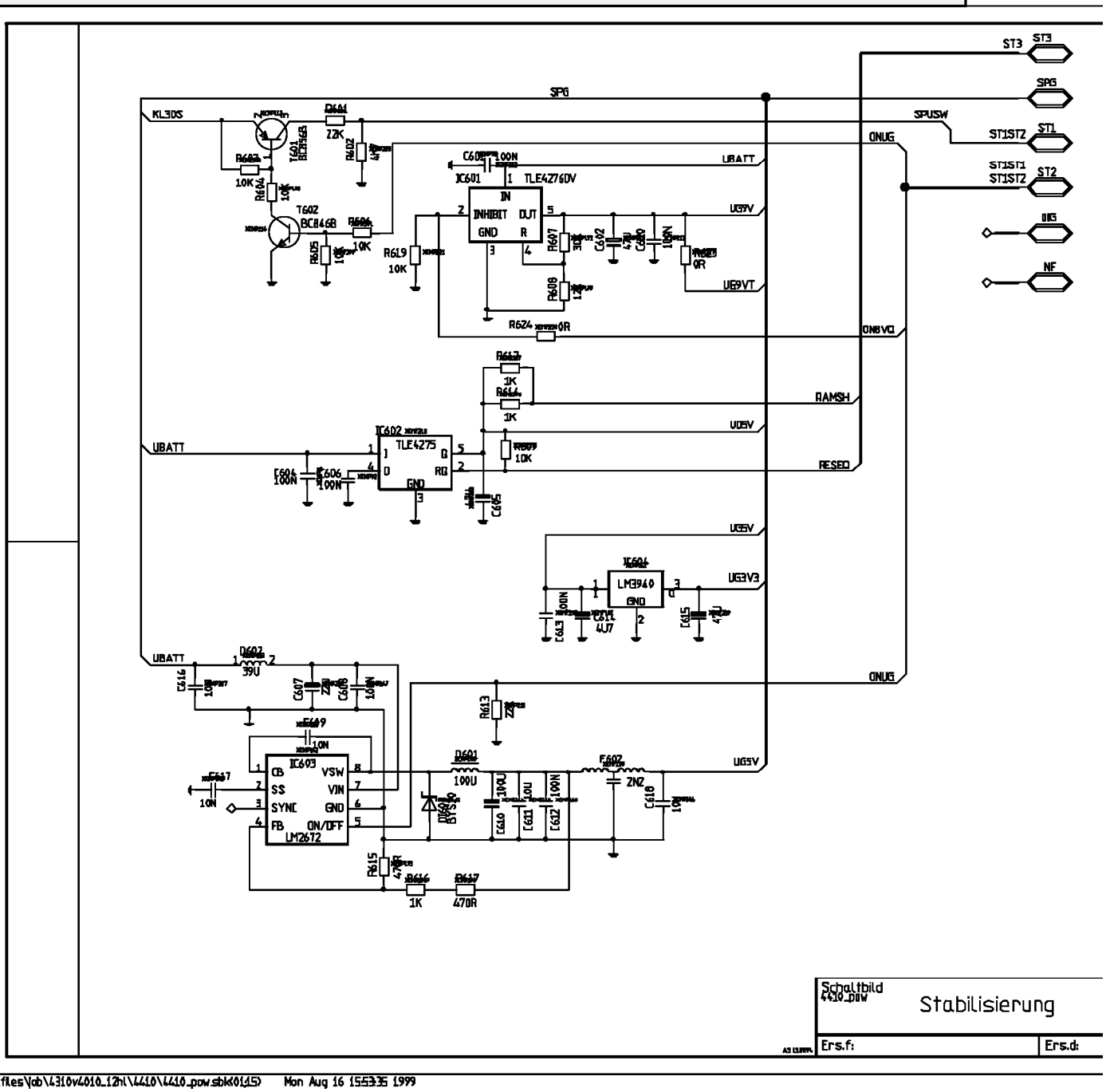

Schaltbild 4410_pow

Stabilisierung

Ers.f:

Ers.d:

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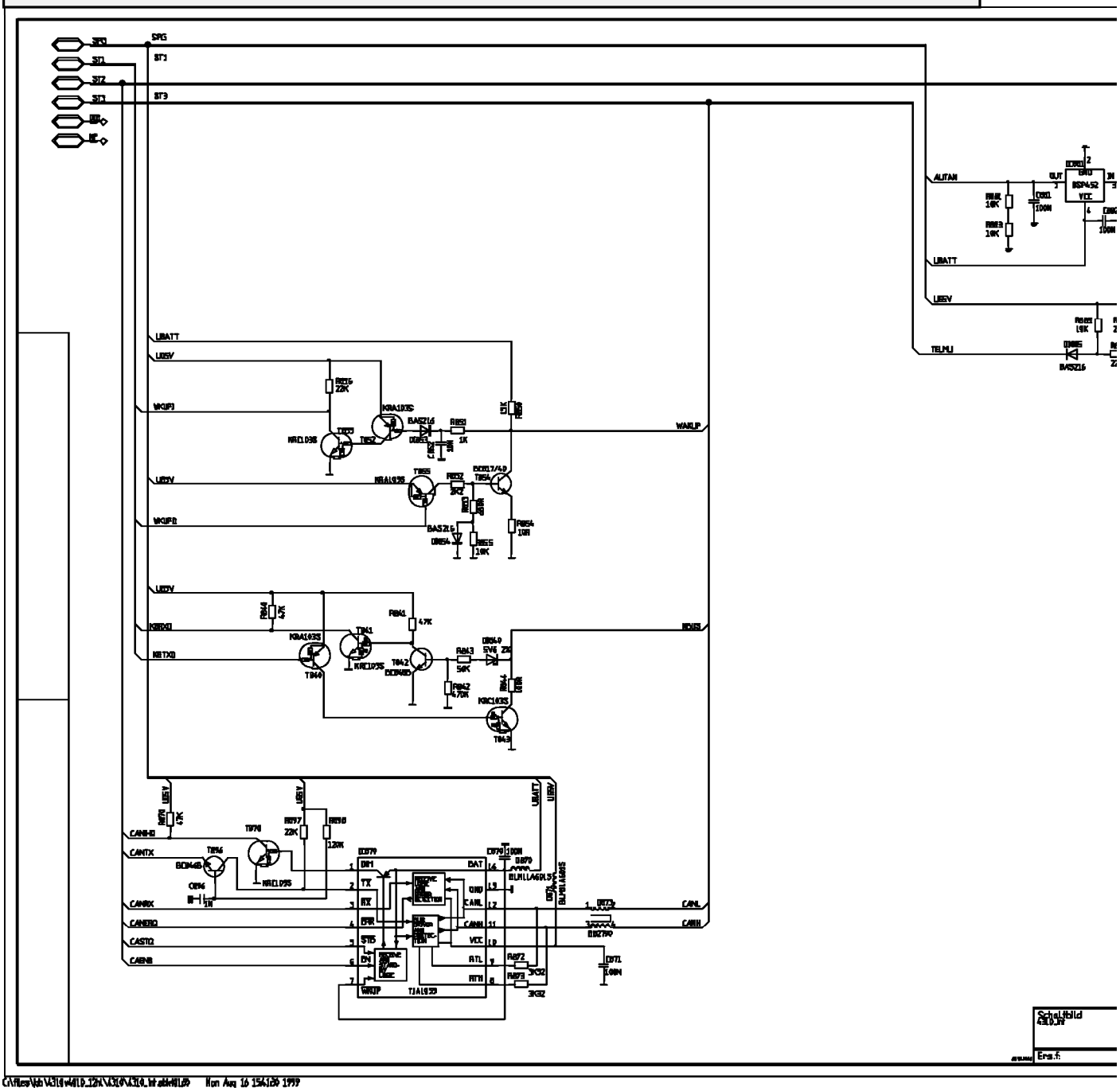
Printed by CAMCAD :(4410_pow.hp)

Schaltplan 4410CD DC Audio 10 A203 ECE



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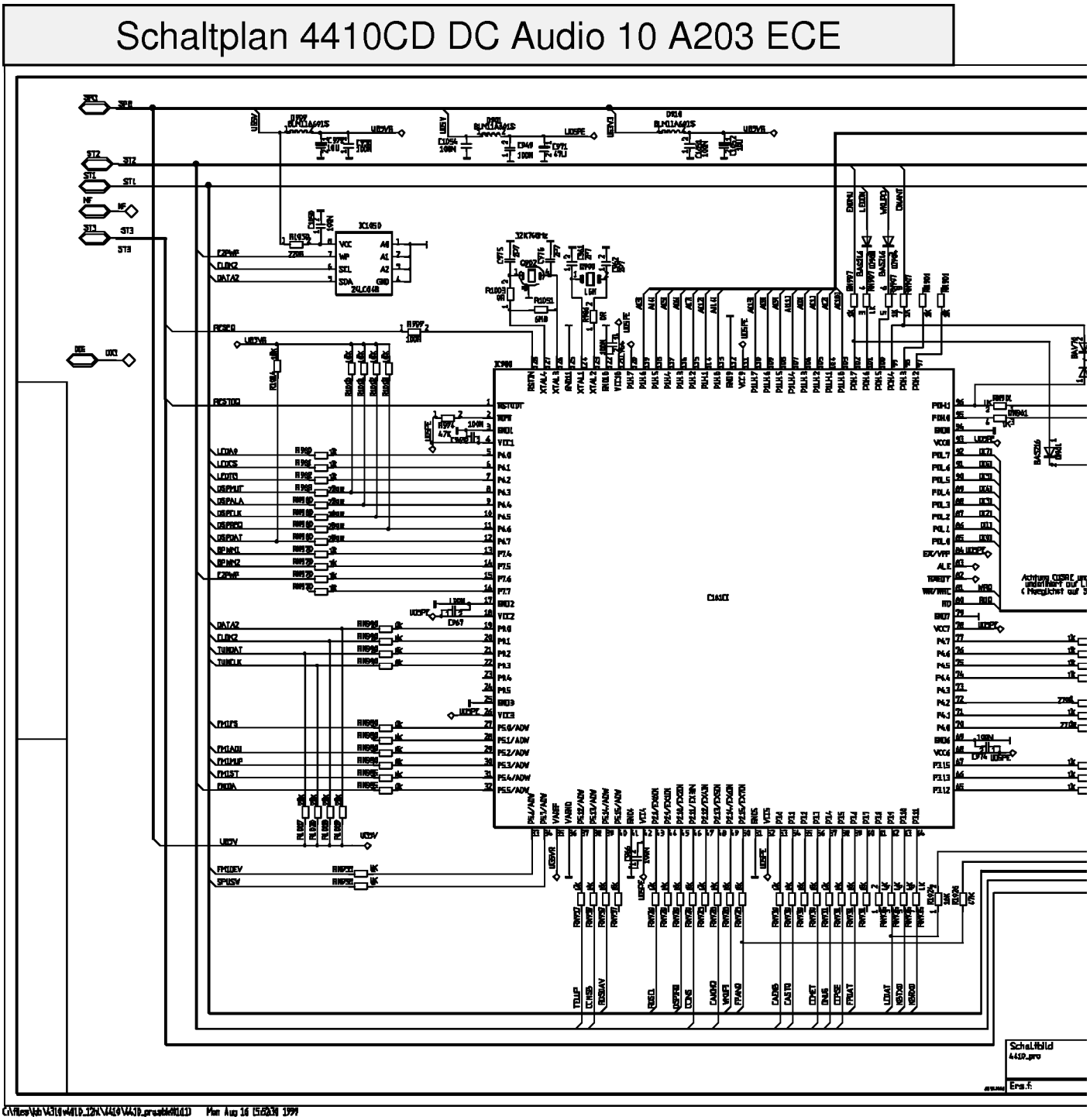

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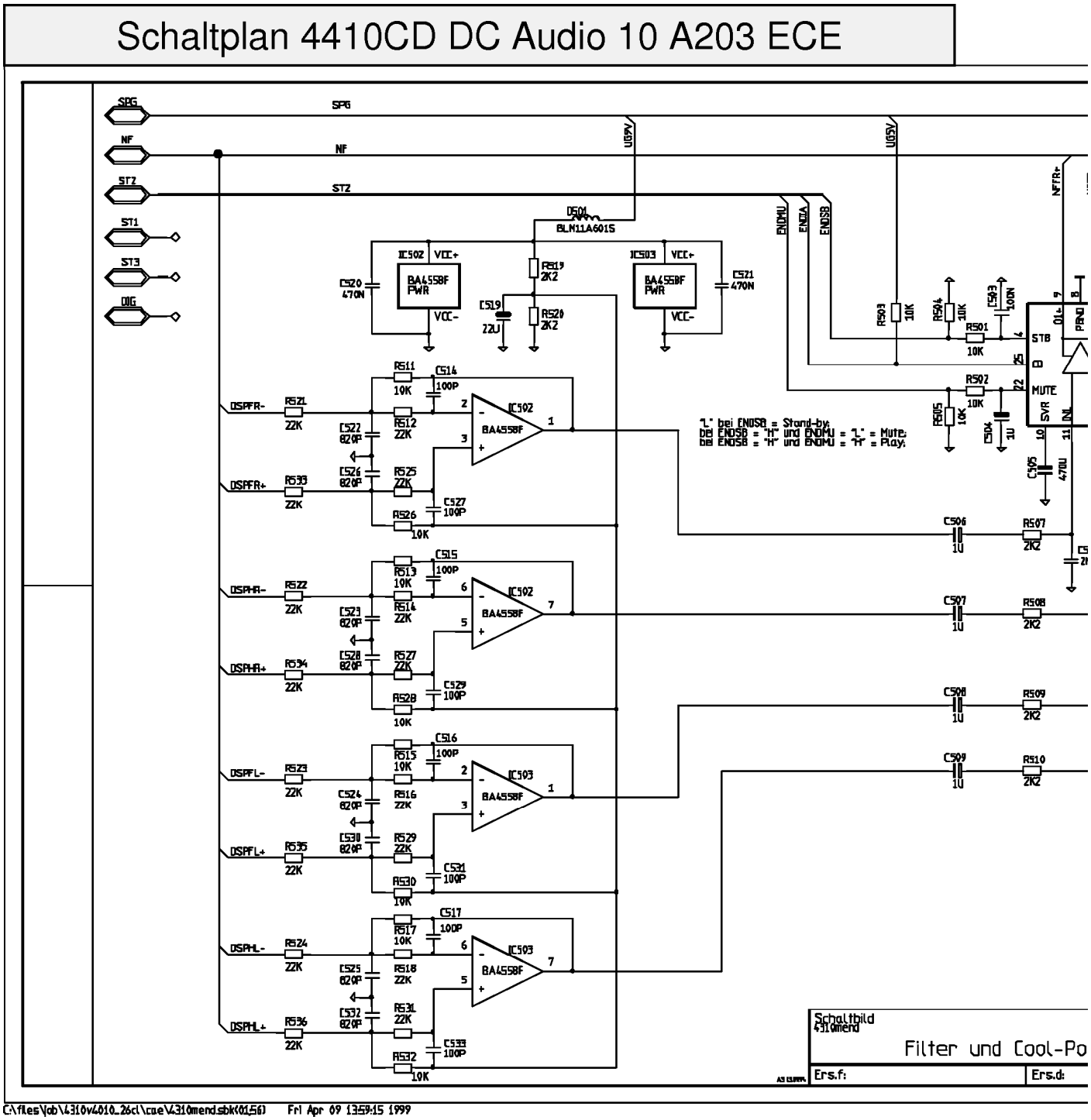

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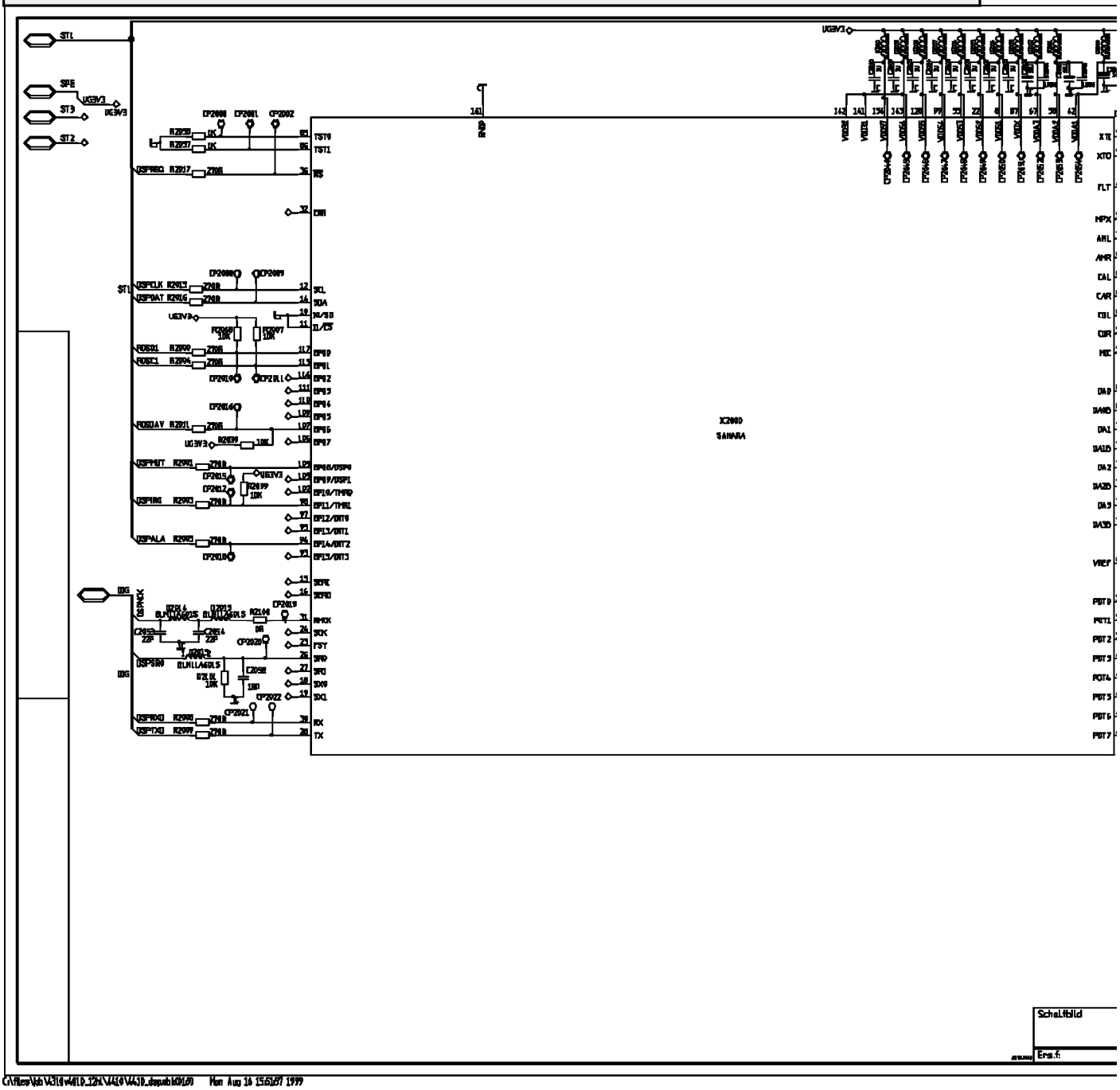

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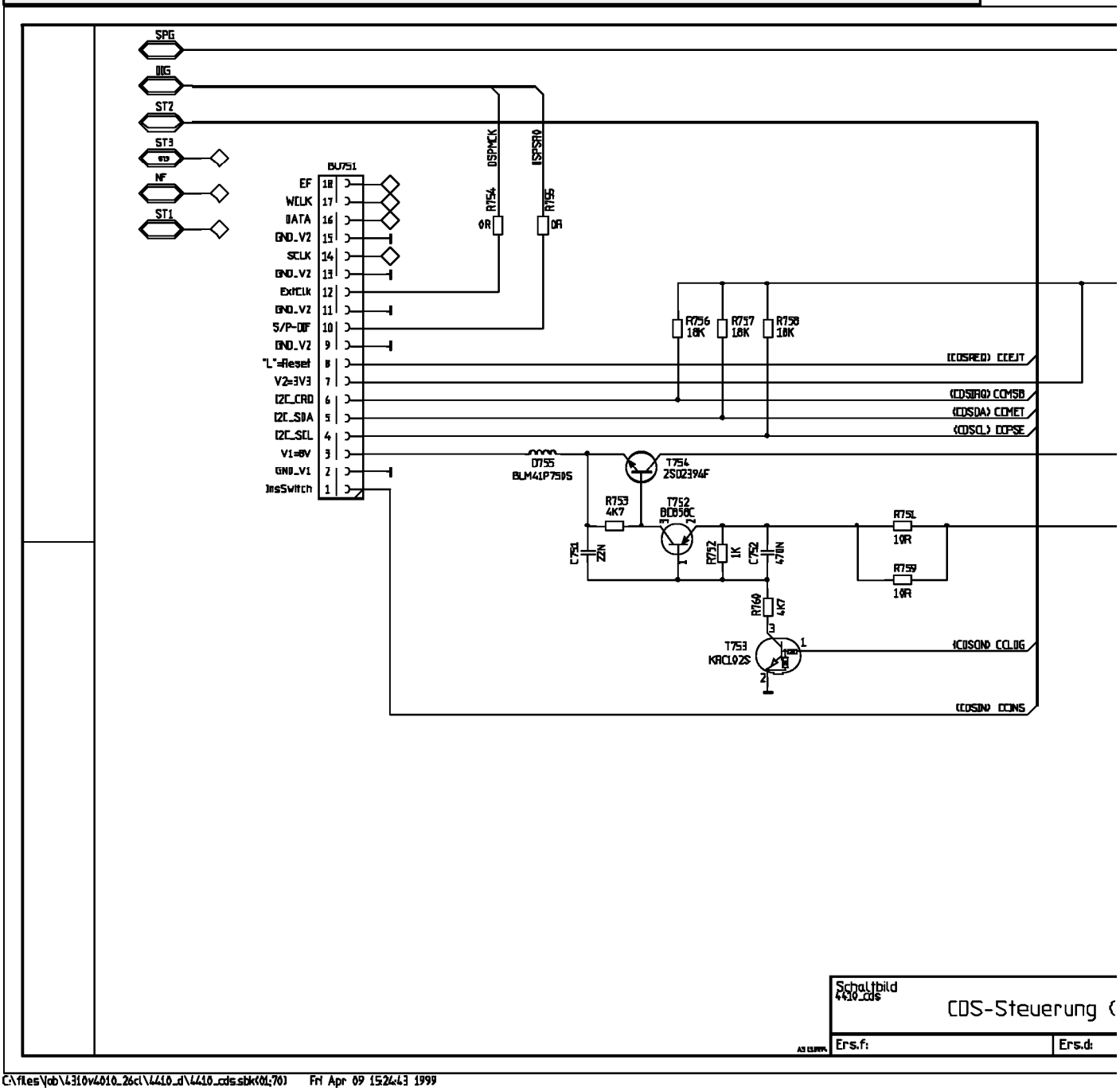

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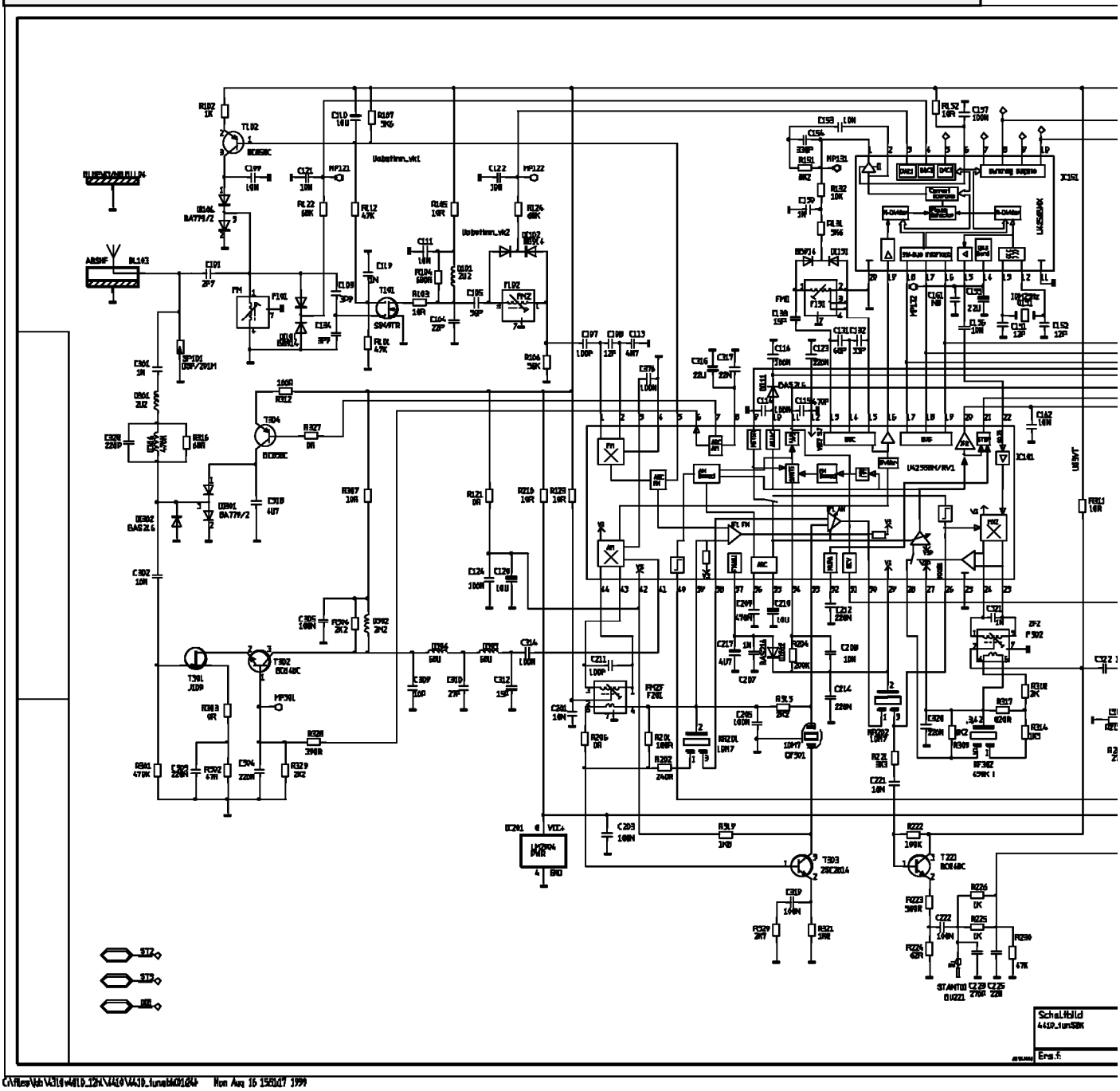

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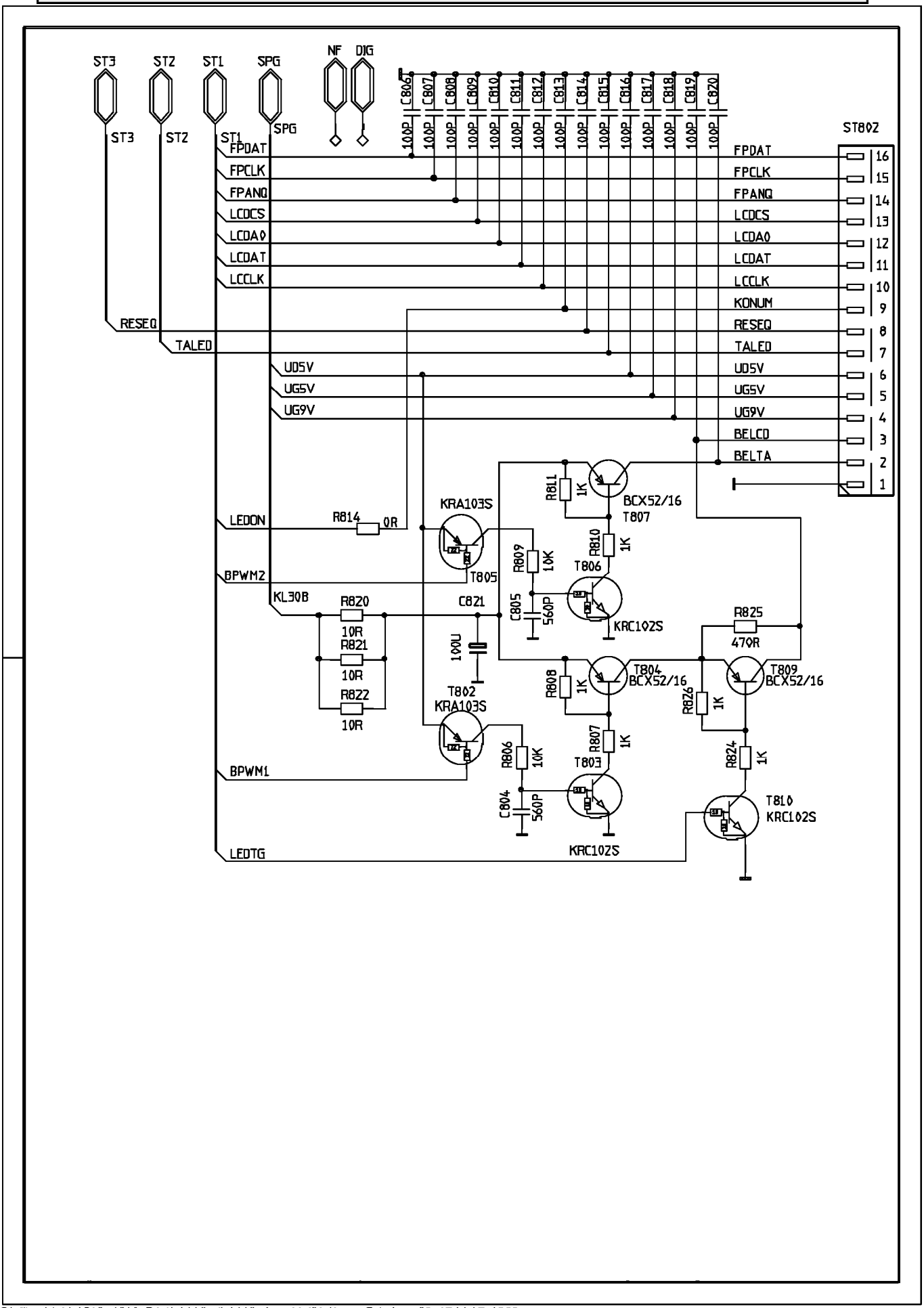

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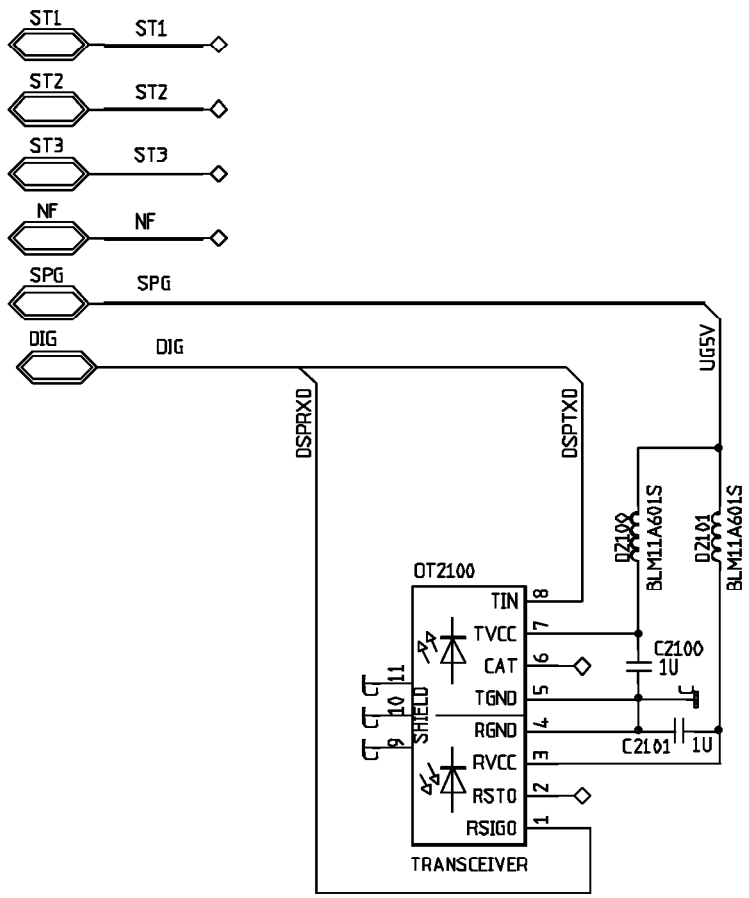

Schaltbild 4310mfot	D2B-FOT-Unit (MB/AMP)		Blatt 28	Blätter	Muster D
Ers.f:	Ers.d:		Typ-Nr. 4310	Sach-Nr. 1313.797-074

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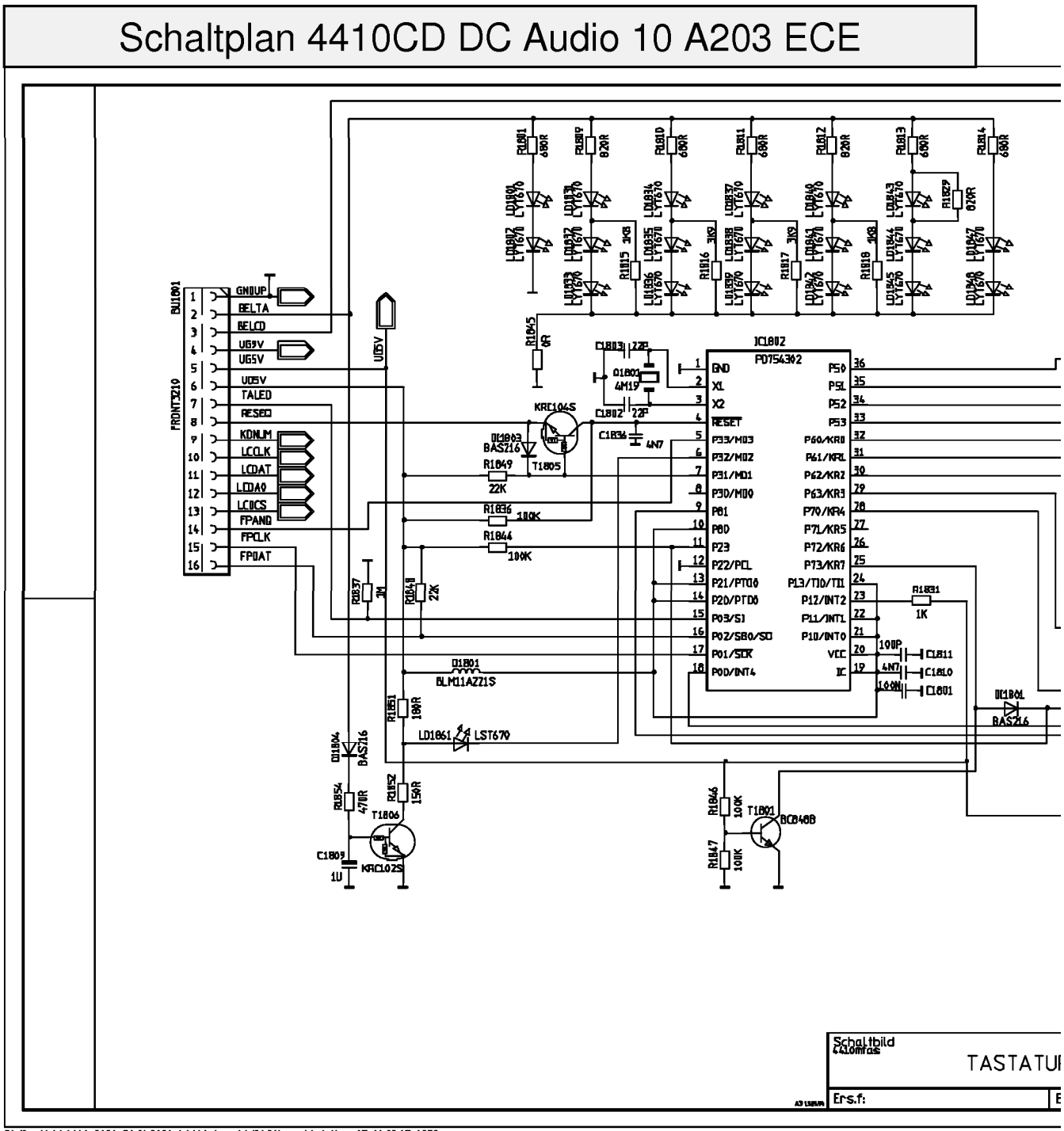

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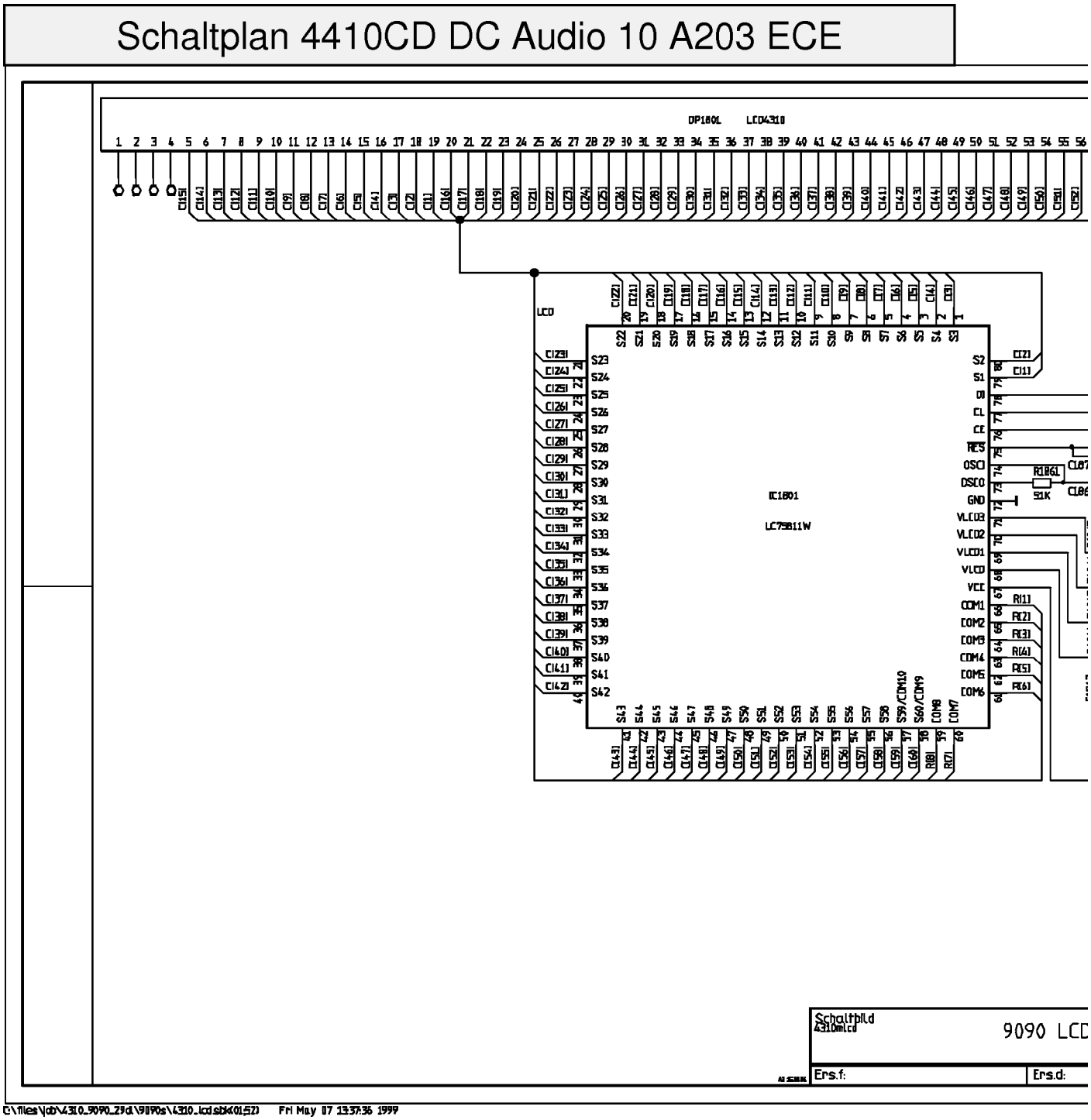

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Printed by CAMCAD :(4310_lcd.hp)

Pos.	Best.-Nr.	Benennung
1	1311204	CHASSIS
2	1329499	WÄRMELEITKISSEN
3	1311212	DECKEL, CHASSIS
4	1310895	STIRNWAND WGR 11418
5	1246909	KUEHLKOERPER 3310 WGR11318
6	1271997	SCHUTZKAPPE -D2B HEADER- AMP 969 272-2
7	1246917	IC-HALTER
8	1248316	ZB RAHMEN, ABSCHIRM-HF- M.ANT.BUCHSE
9	1278916	ZB CONNECTOR 21 POL D&R K37000300
10	1311360	CD PLAYER SINGLE DIGITAL PHI CDM-M3/4.8D
11		ZB BEDIENAUFSATZ, CD 4410
12	1310925	ZB ZIERBLENDE, CD 4410
13	1363107	PCB 9090 FRONT ASSY+BS
14	1363115	TASTE, AUSSCHUB
15	1363131	TASTE, STUMM
16	1363158	TASTE, KLANG
17	1363174	TASTE, FM
18	1363182	TASTE, AM
19	1363190	TASTE, CD
20	1363204	TASTENKREUZ SUCHLAUF
21	1363220	TASTENKREUZ STATIONSTASTEN
22	1363239	TASTE, RDS
23	1318276	TRAVERSE
24	1311001	KONTAKTMATTE, LI CD 4410
25	1311018	KONTAKTMATTE, RE CD 4410
26	1310798	AKTUATOR, CC/CD WGR 11419
27	1310968	REFLEKTOR VMT 4410
28	1310879	DREHKNOPF MRT
C101	1223917	KEKO-CH 2P7 J NP0 0603 BAW SPE0030A315
C103	1246380	KEKO-CH 3P9 C NP0 0603 BAW SPE0031A315
C104	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
C105	1231014	KEKO-CH 56P J NP0 0603 BAW SPE0030A315
C1050	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C1051	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C1052	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C1053	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C1054	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C106	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C107	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C108	1227653	KEKO-CH 12P J NP0 0603 BAW SPE0030A
C109	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C110	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C111	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C113	1166751	KEKO-CH 4N7 K X7R 0805 BAW SPE0015A315
C114	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C115	1252690	KEKO-CH 470P J NP0 0603 BAW SPE0030A315

C116	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C118	1276948	ALKO-CH 22U M 16V I G BAW SPE0163A312
C119	1119060	KEKO-CH 1N K X7R 0805 BAW SPE0015A315
C120	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
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C122	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C123	1246321	KEKO-CH 220N K X7R 1206 BAW SPE0036A315
C124	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
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C131	1223984	KEKO-CH 68P J NP0 0603 BAW SPE0030A315
C132	1223968	KEKO-CH 33P J NP0 0603 BAW SPE0030A315
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C155	1276948	ALKO-CH 22U M 16V I G BAW SPE0163A312
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C159	1223968	KEKO-CH 33P J NP0 0603 BAW SPE0030A315
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C163	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C164	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
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C1803	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
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C1805	1173324	KEKO-CH 1N J NP0 0805 BAW SPE0003A315
C1808	1238647	TAKO-CH 1U K B G 35V BAW SPE0005A313
C1809	1238647	TAKO-CH 1U K B G 35V BAW SPE0005A313
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C1871	1166751	KEKO-CH 4N7 K X7R 0805 BAW SPE0015A315
C2000	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C2001	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C2002	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C2003	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C2004	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40

C2005	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C2006	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C2007	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C2008	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C2009	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C201	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C2010	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C2011	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C2012	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C2013	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C2014	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
C2015	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C2017	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C2018	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
C203	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C2036	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
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C2040	1119133	KEKO-CH 15N J X7R 0805 BAW SPE0014A315
C2048	1276220	KEKO-CH 2N2 J X7R 0805 50V BAW SPE0014A
C2049	1276220	KEKO-CH 2N2 J X7R 0805 50V BAW SPE0014A
C205	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C2050	1276220	KEKO-CH 2N2 J X7R 0805 50V BAW SPE0014A
C2053	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
C2054	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
C2055	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C2056	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C2057	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C2058	1223941	KEKO-CH 18P J NP0 0603 BAW SPE0030A315
C207	1173324	KEKO-CH 1N J NP0 0805 BAW SPE0003A315
C208	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C209	1252585	KEKO-CH 470N J X5R 1206 16V MUR GRM42-6
C210	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C2100	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C2101	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C2102	1223933	KEKO-CH 15P J NP0 0603 BAW SPE0030A315
C211	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C212	1255711	KEKO-CH 220N J X7R 1206 BAW SPE0037A315
C213	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
C214	1255711	KEKO-CH 220N J X7R 1206 BAW SPE0037A315
C217	1307797	ALKO-CH 4U7 M 25V I G BAW SPE0164A312
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C221	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C222	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
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C301	1230077	KEKO-CH 1N J NPO 0603 50V AVX MLC

C302	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
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C304	1246321	KEKO-CH 220N K X7R 1206 BAW SPE0036A315
C305	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
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C312	1223933	KEKO-CH 15P J NP0 0603 BAW SPE0030A315
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C316	1276948	ALKO-CH 22U M 16V I G BAW SPE0163A312
C317	1119176	KEKO-CH 22N J X7R 0805 BAW SPE0014A315
C318	1283235	KEKO-CH 4U7 K X5R 1206 10V MUR GMR42-6
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C323	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C328	1259253	KEKO-CH 220P J NPO 0603 BAW SPE0030A315
C376	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C50	1229974	AL-ELKO 100U M 25V I G BAW SPE0108 RM2,5
C501	1186973	AL-ELKO 1M M 25V G BAW SPE0074A312-RM5
C502	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C503	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C504	1258907	ALKO-CH 1U M 50V I G BAW SPE0161A312
C505	1219480	AL-ELKO 470U M 16V G BAW SPE0107A312 RM5
C506	1258907	ALKO-CH 1U M 50V I G BAW SPE0161A312
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C510	1326902	KEKO-CH 2N7 J COH 0805 25V G MUR GRM40
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C520	1317148	KEKO-CH 470N K X7R 0805 25V MUR GRM40
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C522	1156624	KEKO-CH 820P J NP0 0805 BAW SPE0003A315
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C527	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
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C529	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C53	1290282	AL-ELKO 2M2 M 25V G BAW SPE0084A312RM7,5
C530	1156624	KEKO-CH 820P J NP0 0805 BAW SPE0003A315
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C58	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
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C601	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C602	1313045	ALKO-CH 47U M 16V I G BAW SPE0166A312
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C606	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C607	1313037	ALKO-CH 22U M 35V I G BAW SPE0165A312
C608	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
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C610	1249630	TAKO-CH 100U M D G 10V SNPB SIE B45197-A
C611	1351990	KEKO-CH 10U Z Y5V 1206 10V BAW SPE55A315
C612	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C613	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C614	1307797	ALKO-CH 4U7 M 25V I G BAW SPE0164A312
C615	1313045	ALKO-CH 47U M 16V I G BAW SPE0166A312
C616	1351982	KEKO-CH 10U Z Y5V 1210 16V BAW SPE51A315
C617	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C618	1351990	KEKO-CH 10U Z Y5V 1206 10V BAW SPE55A315
C62	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C620	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C621	1306138	ALKO-CH 100U M 16V I G SAW 7KSSC1CCB107M
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C63	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
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C71	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
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C725	1306138	ALKO-CH 100U M 16V I G SAW 7KSSC1CCB107M
C73	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C74	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C75	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C751	1119176	KEKO-CH 22N J X7R 0805 BAW SPE0014A315
C752	1317148	KEKO-CH 470N K X7R 0805 25V MUR GRM40
C753	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C756	1306138	ALKO-CH 100U M 16V I G SAW 7KSSC1CCB107M
C76	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C77	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315

C804	1270540	KEKO-CH 560P J NPO 0603 50V MUR GRM39
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C806	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
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C808	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C809	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C810	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C811	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C812	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C813	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C814	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C815	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C816	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C817	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C818	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C819	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C820	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C821	1229974	AL-ELKO 100U M 25V I G BAW SPE0108 RM2,5
C852	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C870	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C871	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C881	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C882	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C896	1230077	KEKO-CH 1N J NPO 0603 50V AVX MLC
C949	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C958	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C961	1223917	KEKO-CH 2P7 J NP0 0603 BAW SPE0030A315
C962	1223917	KEKO-CH 2P7 J NP0 0603 BAW SPE0030A315
C964	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C966	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C967	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C969	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C971	1312154	ALKO-CH 47U M 25V I G NCC MV F60
C972	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C974	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C975	1223917	KEKO-CH 2P7 J NP0 0603 BAW SPE0030A315
C976	1223917	KEKO-CH 2P7 J NP0 0603 BAW SPE0030A315
D101	1178237	DROSSEL-CH 2,2UH K G SIE B82422-A1222-K
D103	1289950	DROSSEL-CH 10UH K G SIE B82432-A1103-K
D1801	1227221	INDUCTOR-CH G MUR BLM11A221S
D2000	1305591	INDUCTOR-CH G MUR BLM11A601S
D2001	1305591	INDUCTOR-CH G MUR BLM11A601S
D2002	1305591	INDUCTOR-CH G MUR BLM11A601S
D2003	1305591	INDUCTOR-CH G MUR BLM11A601S
D2004	1305591	INDUCTOR-CH G MUR BLM11A601S
D2005	1305591	INDUCTOR-CH G MUR BLM11A601S
D2006	1305591	INDUCTOR-CH G MUR BLM11A601S

D2007	1305591	INDUCTOR-CH G MUR BLM11A601S
D2008	1305591	INDUCTOR-CH G MUR BLM11A601S
D2009	1305591	INDUCTOR-CH G MUR BLM11A601S
D2010	1305591	INDUCTOR-CH G MUR BLM11A601S
D2013	1305591	INDUCTOR-CH G MUR BLM11A601S
D2014	1305591	INDUCTOR-CH G MUR BLM11A601S
D2100	1305591	INDUCTOR-CH G MUR BLM11A601S
D2101	1305591	INDUCTOR-CH G MUR BLM11A601S
D301	1178237	DROSSEL-CH 2,2UH K G SIE B82422-A1222-K
D302	1249398	DROSSEL-CH 2,2MH K G MSI C6-R/3333
D304	1245368	DROSSEL-CH 68UH K G SIE B82432-S1683-K
D305	1245368	DROSSEL-CH 68UH K G SIE B82432-S1683-K
D306	1148494	DROSSEL-CH 0,47UH J G SIE B82422-A3471-J
D307	1292706	DROSSEL-CH 150 NH K G SIE B82498-B3151-K
D50	1305591	INDUCTOR-CH G MUR BLM11A601S
D501	1305591	INDUCTOR-CH G MUR BLM11A601S
D51	1305591	INDUCTOR-CH G MUR BLM11A601S
D53	1244922	DROSSEL,BATT.- 200UH VOG 5730409900
D601	1297570	DROSSEL-CH 100UH M G SUM CDRH 125
D602	1306030	DROSSEL-CH 39UH M G MSI C6-K
D751	1305484	INDUCTOR-CH G MUR BLM41P750S
D755	1305484	INDUCTOR-CH G MUR BLM41P750S
D870	1305591	INDUCTOR-CH G MUR BLM11A601S
D871	1305591	INDUCTOR-CH G MUR BLM11A601S
D873	1245104	DROSSEL-CH 51UH N 0,5A G SIE B82790
D901	1305591	INDUCTOR-CH G MUR BLM11A601S
D909	1305591	INDUCTOR-CH G MUR BLM11A601S
D910	1305591	INDUCTOR-CH G MUR BLM11A601S
DI101	1217186	DIODE-CH SIE BB914 G
DI102	1217186	DIODE-CH SIE BB914 G
DI104	1229788	DIODE-CH BAW BA779-2/1SV234/DPA05 G SPE
DI111	1345532	DIODE-CH ROH 1SS355
DI131	1217186	DIODE-CH SIE BB914 G
DI1801	1345532	DIODE-CH ROH 1SS355
DI1802	1345532	DIODE-CH ROH 1SS355
DI1803	1345532	DIODE-CH ROH 1SS355
DI1804	1345532	DIODE-CH ROH 1SS355
DI2000	1281054	DIODE-CH SCHOTTKY PHI BAT 254 G
DI201	1345532	DIODE-CH ROH 1SS355
DI202	1345532	DIODE-CH ROH 1SS355
DI301	1229788	DIODE-CH BAW BA779-2/1SV234/DPA05 G SPE
DI302	1345532	DIODE-CH ROH 1SS355
DI50	1179683	DIODE-CH GIC S3B G
DI602	1292161	DIODE-CH SCHOTTKY TEL BYS 10-35 G
DI840	1076353	DIODE-CH BAW 5V6 2% SHIP-TO-STOCK G SPE0
DI853	1345532	DIODE-CH ROH 1SS355
DI854	1345532	DIODE-CH ROH 1SS355

DI885	1345532	DIODE-CH ROH 1SS355
DI901	1345532	DIODE-CH ROH 1SS355
DI902	0672475	DIODE-CH BAW BAV70 SHIP-TO-STOCK G SPE00
DI903	1345532	DIODE-CH ROH 1SS355
DI904	1345532	DIODE-CH ROH 1SS355
F101	1295004	FILTER, FMZ- 100MHZ TOK MC122 E528ENAS-1
F102	1253395	FILTER, FMZ- 100MHZ TOK/P666SNS-256Z-RT
F131	1340700	FILTER,AMO/FMO 120MHZ TOK T369INS-A416RT
F201	1328931	FILTER,FM-ZF - 10,7MHZ MSI M5-F1/33303
F302	1247115	FILTER, AM-ZF- 450KHZ TOK 5PAG (C805LN-0
F602	1276654	FILT-CH 2N2+-50 25V G MUR NFM60R30T222T1
IC101	1346581	IC-CH TEL U4255BM-AFN G3 DATE CODE 94X
IC1050	1225162	IC-CH AMC 24LC04BT-I/SN G
IC151	1347111	IC-CH TEL U4256BM-NFSG3 DATECODE 09/22
IC1801	1331256	IC-CH SAY LC75811W-1331.256 (8717HS)
IC1802	1299662	IC-CH NEC UPD 754302-3200-04/98
IC2000		IC-NICHT TAUSCHBAR
IC201	1277057	IC-CH NSC LM2904 M
IC501	1316397	IC SGT TDA7454
IC502	1226312	IC-CH ROH BA4558F-DX G
IC503	1226312	IC-CH ROH BA4558F-DX G
IC601	1322680	IC-CH SIE TLE 4276 DV P-TO252-5-1
IC602	1319914	IC-CH SIE TLE4275D P-TO252-5-1
IC603	1298674	IC-CH NSC LM2672M-ADJ
IC604	1297546	IC-CH NSC LM 3940 ISX-3.3
IC870	1279432	IC-CH PHI TJA 1053 G
IC881	1240481	IC-CH SIE BSP452 G
IC900	1330845	IC-CH SIE SAF C161C1-32FF STEP BB
IC901	1294334	IC-CH SAY LC35256FT-70U
KF302	1237713	KERA-FILTER MUR CFWS 450 IT
KR201	1306987	K-FILT MUR SFE 10,7 MS3A10GJ24-A-S-TF21
KR202	1306987	K-FILT MUR SFE 10,7 MS3A10GJ24-A-S-TF21
LD1801	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1802	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1803	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1804	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1805	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1806	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1807	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1808	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1809	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1810	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1811	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1812	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1813	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1814	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1815	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235

LD1816	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1817	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1818	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1819	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1820	1285165	LED-CH SIE LYT676E9349 P2/U Q62703-Q4235
LD1831	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1832	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1833	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1834	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1835	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1836	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1837	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1838	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1839	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1840	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1841	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1842	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1843	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1844	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1845	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1847	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1848	1285122	LED-CH SIE LYT670E9349 K2/U Q62703-Q4228
LD1861	1158767	LED-CH SIE LST670 G -RT
OT2100	1248121	TRANSCEIVER AMP 966893 D2BOPTICAL-HEADER
Q151	1280279	QUARZ 10,250 MHZ G NDK AT-51 M.ISOPL.
Q1801	1171501	KERA-RESON-CH MUR CSAC 4,19 MGCA G
Q2000	1305492	QUARZ-CH 16,9344 MHZ NDK AT-41CD2
Q900	1307576	QUARZ 16,00MHZ TQG KFZ0012
Q902	1332937	QUARZ-CH 32,768KHZ SEP MC-306-EX
QF301	1323768	QUARZ-FILTER 10,7MHZ NDK 10U7,5A
R1003	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R101	1254332	MEGWI-CH 47K F 0603 G BAW SPE0028A323
R1010	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R1011	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R1012	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R1013	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R1014	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R1017	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1018	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1019	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R102	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R1020	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1023	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R1024	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R1025	1291181	MEGWI-CH 5K6 F 0603 G BAW SPE0028A323
R1026	1254332	MEGWI-CH 47K F 0603 G BAW SPE0028A323
R103	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323

R104	1304429	MEGWI-CH 680R F 0603 BAW SPE0027A323
R105	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R1050	1304348	MEGWI-CH 220R F 0603 BAW SPE0027A323
R1051	1332521	MEGWI-CH 6M8 F 0805 G BAW SPE0019A323
R106	1271199	MEGWI-CH 56K F 0603 G BAW SPE0028A323
R107	1291181	MEGWI-CH 5K6 F 0603 G BAW SPE0028A323
R112	1254332	MEGWI-CH 47K F 0603 G BAW SPE0028A323
R121	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R122	1305131	MEGWI-CH 68K F 0603 BAW SPE0028A323
R123	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R124	1305131	MEGWI-CH 68K F 0603 BAW SPE0028A323
R131	1291181	MEGWI-CH 5K6 F 0603 G BAW SPE0028A323
R132	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R151	1253700	MEGWI-CH 8K2 F 0603 G BAW SPE0028A323
R152	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R159	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R160	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R161	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R162	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R172	1304402	MEGWI-CH 470R F 0603 BAW SPE0027A323
R174	1285564	MEGWI-CH 4K7 F 0603 G BAW SPE0028A323
R1801	1226649	MEGWI-CH 680R F 1206 BAW SPE0015A323
R1802	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1803	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1804	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1805	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1806	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1807	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1809	1303538	MEGWI-CH 820R F 1206 G BAW SPE0015A323
R1810	1226649	MEGWI-CH 680R F 1206 BAW SPE0015A323
R1811	1226649	MEGWI-CH 680R F 1206 BAW SPE0015A323
R1812	1303538	MEGWI-CH 820R F 1206 G BAW SPE0015A323
R1813	1226649	MEGWI-CH 680R F 1206 BAW SPE0015A323
R1814	1226649	MEGWI-CH 680R F 1206 BAW SPE0015A323
R1815	1281811	MEGWI-CH 1K8 F 0603 G BAW SPE0028A323
R1816	1304496	MEGWI-CH 3K9 F 0603 G BAW SPE0028A323
R1817	1304496	MEGWI-CH 3K9 F 0603 G BAW SPE0028A323
R1818	1281811	MEGWI-CH 1K8 F 0603 G BAW SPE0028A323
R1829	1304437	MEGWI-CH 820R F 0603 BAW SPE0027A323
R1831	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R1832	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1833	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1836	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1837	1305093	MEGWI-CH 1M F 0603 BAW SPE0028A323
R1841	1304283	MEGWI-CH 100R F 0603 BAW SPE0027A323
R1842	1254332	MEGWI-CH 47K F 0603 G BAW SPE0028A323
R1843	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323

R1844	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1846	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1847	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1848	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1849	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1851	1304331	MEGWI-CH 180R F 0603 BAW SPE0027A323
R1852	1304321	MEGWI-CH 150R F 0603 BAW SPE0027A323
R1854	1304402	MEGWI-CH 470R F 0603 BAW SPE0027A323
R1861	1313185	MEGWI-CH 51K F 0603 G BAW SPE 0028 A 323
R1862	1018302	MEGWI-CH 0R 0805 G BAW SPE0009A323
R1863	1314424	MEGWI-CH 1K1 F 0603 BAW SPE0028A323
R1864	1235397	MEGWI-CH 3K3 F 0603 G BAW SPE0028A323
R1865	1235397	MEGWI-CH 3K3 F 0603 G BAW SPE0028A323
R1866	1235397	MEGWI-CH 3K3 F 0603 G BAW SPE0028A323
R1867	1235397	MEGWI-CH 3K3 F 0603 G BAW SPE0028A323
R1868	1307185	NTCWI-CH 10K J 0,50W G SIE C621-Q63
R1869	1304461	MEGWI-CH 1K5 F 0603 G BAW SPE0028A323
R1870	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1871	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1872	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R2000	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2001	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2003	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2004	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2005	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2007	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R2008	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2009	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R201	1304331	MEGWI-CH 180R F 0603 BAW SPE0027A323
R2011	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2015	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2016	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2017	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R202	1304356	MEGWI-CH 240R F 0603 G BAW SPE0027A323
R2020	1253700	MEGWI-CH 8K2 F 0603 G BAW SPE0028A323
R2021	1305001	MEGWI-CH 33K F 0603 BAW SPE0028A323
R2036	1304471	MEGWI-CH 2K F 0603 G BAW SPE0028A323
R2037	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R2038	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R2039	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R204	1250531	MEGWI-CH 200K F 0603 G BAW SPE0028A323
R2046	1254421	MEGWI-CH 12K F 0603 G BAW SPE0028A323
R2048	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R2051	1305018	MEGWI-CH 150K F 0603 BAW SPE0028A323
R2053	1282662	MEGWI-CH 180K F 0603 G BAW SPE0028A323
R2057	1305018	MEGWI-CH 150K F 0603 BAW SPE0028A323
R2059	1282662	MEGWI-CH 180K F 0603 G BAW SPE0028A323

R206	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R2063	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R2068	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R207	1305093	MEGWI-CH 1M F 0603 BAW SPE0028A323
R209	1305093	MEGWI-CH 1M F 0603 BAW SPE0028A323
R2096	1288393	MEGWI-CH 5K1 F 0603 G BAW SPE0028A323
R2099	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R210	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R2100	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R2102	1307045	MEGWI-CH 910R F 0603 G BAW SPE0027A323
R211	1258478	MEGWI-CH 15K F 0603 BAW SPE0028A323
R212	1254448	MEGWI-CH 27K F 0603 G BAW SPE0028A323
R214	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R215	1304496	MEGWI-CH 3K9 F 0603 G BAW SPE0028A323
R221	1235397	MEGWI-CH 3K3 F 0603 G BAW SPE0028A323
R222	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R223	1304410	MEGWI-CH 560R F 0603 BAW SPE0027A323
R224	1340409	MEGWI-CH 62R F 0603 G BAW SPE0027A323
R225	1226657	MEGWI-CH 1K F 1206 BAW SPE0016A323
R226	1226657	MEGWI-CH 1K F 1206 BAW SPE0016A323
R230	1254332	MEGWI-CH 47K F 0603 G BAW SPE0028A323
R301	1305050	MEGWI-CH 470K F 0603 BAW SPE0028A323
R302	1304232	MEGWI-CH 47R F 0603 G BAW SPE0027A323
R303	1018302	MEGWI-CH 0R 0805 G BAW SPE0009A323
R306	1254022	MEGWI-CH 2K2 F 0603 G BAW SPE0028A323
R307	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R309	1302728	MEGWI-CH 6K2 F 0603 G BAW SPE0028A323
R311	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R312	1304283	MEGWI-CH 100R F 0603 BAW SPE0027A323
R314	1304461	MEGWI-CH 1K5 F 0603 G BAW SPE0028A323
R315	1254022	MEGWI-CH 2K2 F 0603 G BAW SPE0028A323
R316	1304259	MEGWI-CH 68R F 0603 BAW SPE0027A323
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T102	1028049	TRANSISTOR-CH BAW BC858C G SPE0002A302
T153	1018280	TRANSISTOR-CH BAW BC808-40 G SPE002
T1801	0659614	TRANSISTOR-CH BAW BC848B G SPE0003A

T1802	0675318	TRANSISTOR-CH BAW BC818-16 SHIP-TO-STOCK
T1803	1172646	TRANSISTOR-CH BAW KRC103S/DTC124 NP
T1804	0659614	TRANSISTOR-CH BAW BC848B G SPE0003A
T1805	1239066	TRANS.-CH BAW KRC104S/BCR148/DTC144
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T301	1180576	TRANSISTOR BAW J109/110 SELEKT.G SP
T302	0659622	TRANSISTOR-CH BAW BC848C G SPE0004A302
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T802	1172654	TRANSISTOR-CH BAW KRA103S/DTA124 PN
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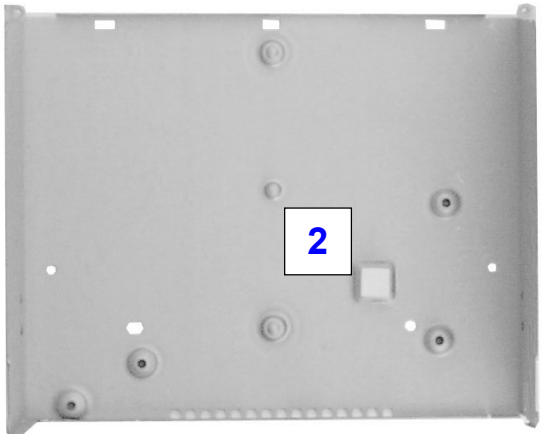
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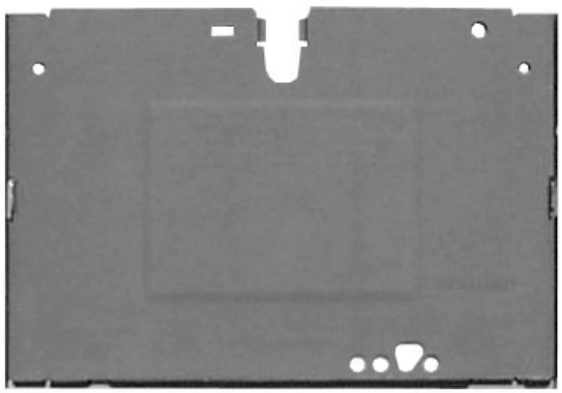
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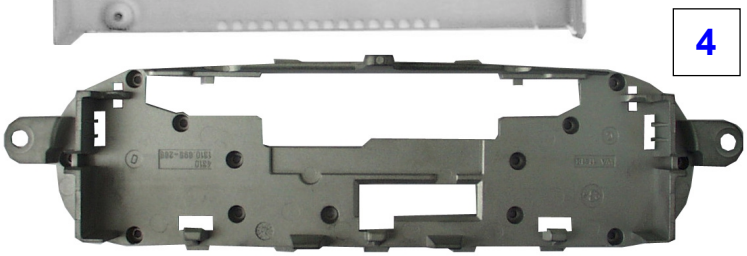
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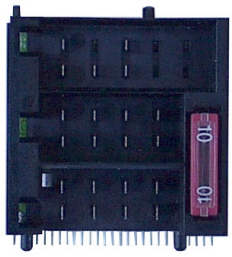
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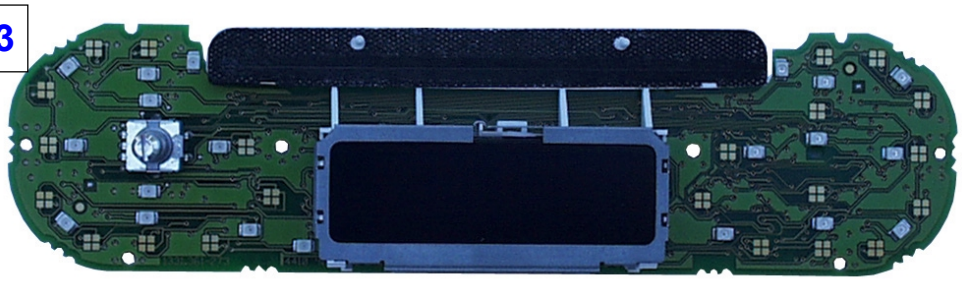
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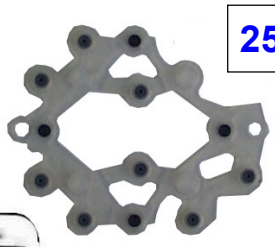
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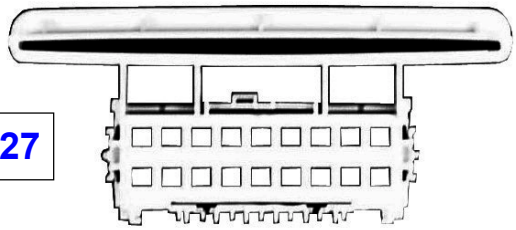
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